

NAKED CAME THE SASQUATCH

By John Boston

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AMAZINGLY YOURS

4 Kim Mohan

REFLECTIONS

5 Robert Silverberg



FICTION

- 7 Falconer by Mark S. Geston
- 12 Fifteen-Love on the Dead Man's Chest by Charles Sheffield

11

20 Sweet Are the Uses by David Galef



- 23 New Time by Phillip C. Jennings
- 31 Going Up by John E. Stith
- 39 Folds of Blue Silk by Danith McPherson
- 73 Thunder-Being (Part Two) by Jack Dann and Jack C. Haldeman II





NONFICTION

- About the Authors 22
 - My Amazing Stories by Julius Schwartz with Elliot S. Maggin 48
 - 54 SF the British Way by James Gunn
 - Thallasogens III: The Sulfur Dioxide Sea by Stephen L. Gillett 61
 - Tomorrow's Books compiled by Susan C. Stone and Bill Fawcett 63
 - Back Issues and Anthologies

LOOKING FORWARD

- Dr. Dimension by John DeChancie and David Bischoff 67
- 70 Wild Magic by Angus Wells



Cartoons by Mark Heath (page 47) Scott Arthur Masear (page 93)



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Amazingly Yours

Kim Mohan

I get a lot of letters, and I have a loc of fun paying attention to the different desirgs that people use—you know, the line right above the signature that usually includes some "by" word, alone or in combination with other words. The line where you slide out of your letter gracefully, the last chance to express some nice (or not so nice) sentiment.

Where ddd all these different expressions come from, anyway? by do people choose one over another? Is someon's closing 'style' a shore oughly considered decision, an offieoughly considered decision, an offithe-ouff random choice, or simply a phrase that has become a habit and is tossed out unotantically? Should I be careful about the way I close my letters, just in case the person from writing to is also one of those who pays attention to such things?

Well, I am careful, at least to the extent that I think about how to slide out of each tener I write. For me it usually boils down to a choice between "Sincerely," which I use if I'm writing to someone for the first time, or "Best regards," which I generally reserve for people with whom Yee developed a currespondence relationship. One of the two seems to work for me In practically every case.

Once in a while I go for "Best," which I've never quite understood (Best what?) but still seems correct for some occasions, usually when the person I'm writing to has "Best"ed me at the end of a previous letter. I figure maybe that person knows what it means, so thene's no risk of

my spreading confusion by using it

There are a couple of more complex variations of 'Best' that I can't imagine I'll ever use, though, because they're either terribly confusing or downight scary.

"All my best": Again, the question arises—all your best utbat? Can you really give me all your best, or do you think you should save some for the next person you write to? What happens if you run out and you still need some?

"All the best": No, please, not that! I don't want everybody's best all at once—that would be a terrible responsibility, and I don't know how I'd return at to all the right people.

Olay, I know these expressions aren't meet to be taken Blenzilp-but at the same time it seems to depend to the same time it seems to depend to the same time it seems to depend to the same time it seems to the year can't all seems to the same time to year the same time to the same time to the same time to the same time to same to the same time to same to the time to same to the time to same to the same time to same to same to the same time to same same to same same

Someone told me a long time ago that there's one type of closing that's definitely not meant to be taken seriously—the innocent word "Cordially," which according to my informant is the closing to use at the end of a letter that is not cordial. Has anyone

else ever heard of this strange convention? Can somebody explain the logic of this custom to me, or am I

looking for logic where none exists? It might be a slightly more interesting world if our letter-writing etiquette had evolved differently. What if closines were required to be accurate to convey some fundamental truth about the letter or its writer? We might be choosing from phrases such as these: "Ostentatiously yours." for a non-business letter that's printed on corporate or institutional stationery: "With sincere haughtiness." for someone who thinks he's doing you a favor by writing to you: "All my disdain," for the letter you write back to that person; or "Insincerely yours," which would be appropriate for a fair percentage of the letters I've received (and-yes-a few of the ones I've sent).

Some of my correspondents have boken out of the pattern by creating their own unique (as far as I know) closings. One of those is "Ad astra," which is Latin for someplace we'd all like to go. Another is "Willing to the "Ad astra," which is Latin for someplace we'd all like to go. Another is "Willing to the "Ad astra," which is Latin for someplace we'd all like to go. Another is "Willing the horizontal that the meant, but I've foegotten. And then there's "Your humble and obedient servant"; it's not unique but it hasn't been in voque for a long time.

I've thought about coming up with my own distinctive closing line, but haven't settled on anything yet. I am sure, however, that I'll never end a letter with the words I've used to title this column Some things are better left unsid.

Reflections

Robert Silverberg

There's good news and bad news on the cosmological disaster front. Last time, you may recall, we warmed you of the possible imminent destruction of the Earth through a collision with Comet Swift-Tuttle. (Imminent, that is, provided you take a cosmic view of things. The estimated date of impact of Swift-Tuttle has been calculated at August 14, 2126.)

I'm happy to report that those of you who are planning on living extremely long lives, or are extraordinarily concerned about the fates of your descendants, can relax. Dr. Brian Marsden of the Harvard-Smithsonian Center for Astrophysics in Cambridge, Massachusetts, who issued the original comet-crash warning a few months back, has now taken a second look at his figures. After studying newly discovered records of observations taken when Swift-Tuttle made its last visit to our corner of the universe, Dr. Marsden has recomputed the comet's orbit and tells us that it will miss us by a cheery 15 million miles in 2126. Instead of being part of one of the world's most impressive catastrophes, therefore, those of you who are still making the scene 133 years from now will be treated to a really selendid astronomical light-show. envy you.

Of course, what can be calculated twice can be calculated three times. Dr. Marsden's next estimate of Swift-Tuttle's orbit may not be nearly as cheering. But I think that for the

time being we can stop worrying

Next on the worry list: the forthcoming ice age. Apparently it isn't going to come forth quite as soon as we thought.

What, you say? The problem of the moment is the greenhouse effect, isn't it's Hellscious hot temperatures everywhere, the polar ice packs melting, sea levels rising, climatic patterns changing all over the world as tropical rain forests spring up in South Carolina and pleasant temperate weather breaks out in Manicka's

Well, yes, in the short run we still need to broad a lite about the buildup of earborn disoxide, methane, and other so-called greenbouse gases in our amosphere, and the worldwide rise in mean temperature that that is likely to produce. But we Cosmic Minis kole beyond the short run, don't wer And in the somewhat longer run, the glasteds are due to make another tip across the Northembly and the short run, which we will be the some the memble with ear to see the some greenboase-effect wheat-farms up there in Canada.

glacial periods afflect the Earth with fairly pecificatelle periodicity. On the large scale of geological time, they appear to come every 250 million years the time of the earliest ones is still unclear, but there was one in the Cambrian period, about 500 million years ago, and another in the Permian, 240 million years back, and

Geological evidence tells us that

then another, the most recent, that began during the Pleistocene, two million years ago.

But these great glaciations contain periods of fluctuation-the intenplacial periods, when the ice retreats and the Earth reverts to something like its normal warmth. We are living in an interelacial period right now. one which began about 10,000 years ago. At that time, all of Canada lay under ice, and the United States was covered as far south as the valleys of the Ohio and Missouri rivers: in Europe, an ice sheet spread out of Scandingvia and reached as far as England in the west. Siberia in the east, and the latitude of Berlin in the south a dazzling white blanket more than 10,000 feet thick, covering over two million square miles. Other European ice-fields radiated from the Alps, the Pyrenees, the Appenines, and the Carpathians, so that at the peak of the Pleistocene elaciation all of Europe north of the Mediterranean region was covered

Happily for us, most of that ice went away, making possible such things as the Neolishic agricultural revolution, the spread of civilization through the Fertile Crescent, the Borna Empire, and the development of the first primitive science-fiction continued to the state of the the state

gladal period that has contained the rise and development of human civilization is just about over, that the placiers are due to come crushing down on us again almost immediate. ly. (Which would be rather too effective a rescue from the tornel horrors of the greenhouse-effect world

of the near future.) Now come the first indications that that estimate may be overly pessimistic. A core drilled from mineral deposits along the walls of a 425-foot. deep crack in the Earth's surface known as Devils Hole, in Nevada seems to support the conclusion that the periods between ice ages last for about 20,000 years, just about double the generally accented figure. In that case, of course, we need not expect any worldwide climatic cool-

ing for another seven to nine thousand years, which gives us a little more time to get ready for major. changes in our lifestyles

The Devils Hole findings which were published in the autumn of 1992 in Science, have not been met with universal accentance, since they seem at variance with the established belief that fluctuations in solar radiation are the primary cause of our planet's ice ages: the timetable for past solar cycles is well established, and the Devils Hole numbers don't match it. (They indicate in fact, a previously unsuspected placial period about 400 000 years and when the sun's output was believed to have been at normal levels.) Many geophysicists suggest that the data from Devils Hole represents some sort of local anomaly rather than a record of worldwide climatic conditions; some have questioned the validity of the oxygen-isotope dating system by which the figures were generated. "There is a genuine controversy here, and a jolly interesting one," says Dr. Nicholas Shackleton of Cambridge, one of the three scientists who in 1976 published a paper that seemingly clinched the argument for the solar-fluctuation

theory.

We can leave the alaciologists to their jolly controversy. I supposebut, in a world forever short of good news, let us clutch the Devils Hole report to our bosoms and hope that it will lead to a complete reevaluation of the placial timetable. The return of the placiers by say A.D. 2400 may make an interesting theme for a science-fiction novel—I wrote one myself, thirty-odd years ago, called Time of the Great Freeze-but it would be ever so much nicer for the

human race to have a little more of an intermission between cold soons Then, finally, there is the problem of the bure slab of the island of Hawait that seems poised to fall into the ree

This is the southeastern corner of the so-called Bie Island, where the femous volcanoes (Mauna Los. Mauna Kea, Kilauea) are located. A lot of people live there, too, including some friends of mine who have property not very far from Kilauea Crater. It may be that they have made an unwise real estate invest. ment, because poont satellite observitions appear to show that a "breakaway rift system" begins at the 4,000foot-high summit of Kibuea and extends out to about 50 miles offshore taking in the Puna Coast of the Big Island, where some 10,000 people currently live. This entire mass of terrain appears to be moving toward the sea at a rate of several inches a

When it finally falls in performnately, it will land with an enormous splash-enough to set off tsunamis bundreds of feet high all around the Pacific Rim, with unhappy consequences for hundreds of millions of people. (My own house is on that rim, you understand-600 feet above sea level, which ought to be enough, but you never can tell. . . .)

Will it happen? Almost certainly. yes. In the past five years undersea exploration has turned up evidence that chunks of the various Hawaiian islands as big as 100 square miles in area have slid into the sea now and

then in the past, scattering debris outward for 100 miles or more. None of this has taken place during recorded history, but the process seems to be an oneoine one, and the next time it happens it will be a very historic

At the moment, no reliable estimate of the date of the forthcoming landslide is being offered to us. It could occur tomorrow, though neels, ably it won't. It might still be a hundred thousand years in the futurenot my problem, then, or yours. But it seems to be inevitable. The land is moving, steadily and fast, "It is unstable, it is headed out . . . and you can't stop it," says Richard Fiske of the Smithsonian, who reported on the Hawaiian movements at a mostinv of the American Geophysical Linion in San Francisco last December

So there you have it for now-the soring 1993 Earth report. We will be spared the comet crash and the early return of the ice age; but billions of tons of Hawaii may fall into the sea next week. This morning, at any rate, much of the planet seems fairly stable as I write this in Northern California. The sun is shining pleasantly around here, at least: local earthquake activity has been minimal lately: no volcanic emotions were reported on the morning news; the tropical hurricane season is still some months away, down in the places where tropical hurricanes happen. (And did. last summer, with remarkable vehemence.) Let us be grateful for the blessings of the moment. For what we know, we inhabitants of Forth as that we win a few and then we lose a few, and it's nice not to be on the losing side on any given morning for who knows what the morrow will bring? I would not, at any rate, rush out there to buy a vacation home on Hawaii's Puna Coast, if I were you. +



Norce was given a model of the instrument he would inherit from his father, as tradition dictated. Although it was only a fraction of the real machine's size, the movements of its wings, claws and tail competently imitated the real thing. Mechanics, aeronautical responses, temporal as well as astral transmutation and blind-sight were

convincingly simulated.

Its ocular globes were sheathed with malachite and lapis and had mother-of-nearl lids over them cut thinly enough to be as pliable as flesh. Its wings flexed outward with ministurized grace, then seapped in abruptly for an imagined dive upon an enemy of the king. Its less remained tucked against its helly until the wings extended again as air brakes; then they lowered and the claws sprang open to catch the imagined hostile intelligence. But it was incapable of flight, and despite its verisimilitude. Norce knew that the true instrument's capubilities were only hinted at. The illusion was additionally flawed by the whir of polished clockworks and the need to wind them up each time he wished the model to resume its patrol from atop his outstretched hand.

It was nevertheless valuable for his education. By using it to illustrate their lectures, the king's scholars finally made Norce understand the tactics which must be used against the spirits of the air. They could also supervise his dissection of small birds and the internation of their brains, eyes and nervous systems into the model. Finches were usually chosen for such exercises because of their neural simplicity, and Norce was stunned each time their consciousnesses awakened inside his model and

the light of their bright, primitive eyes shone through the antique lenses

He was then able to understand how, for all their powcr, the marvelous instruments which guarded the king lacked the will and instinct required to hunt the sky's ethereal predators. It was for this reason that only the purest natural hunters were implanted in them. And even then, he realized as he watched his model's eyes move with the intelligence of an engrafted butcher, they owed nothing to mankind, neither lovalty nor affection. But they were aware of their new dress and the power and perception they attained once being rid of their mortal bodies. Atomic decomposition and solar radiation animated them. Ancient circuits extended their sight two hundred ansistroms into the infrared at one extreme of the spectrum and an equal distance into the ultraviolet at the other. Their visual discrimination was refined by a factor of ten in the model and would be by a hundred in a true instrument. They felt no hunger, Norce was assured, but retained the hunt's obsession, and this drove them to a simple joy that overpoid them for their suffering

He surpassed the sons of all the other falconers after be was given the model. His talents at empathetic bonding, mechanical and thaumaturgical preparation and dissection became great enough after a year to excuse a secret attempt to engraft the higher intelligence of a magnic into the model. Its brain capsule and neural harness had been designed to make such a thing impossible, for the dangers of such youthful intemperance were foreseen. when it was built. But Norce almost managed to pare

away enough of the cortex to make the brain fit and still leave a coberent intelligence

The king's scholars intervened when the creature revealed itself in the careful way it tested the model's now. ered limbs. Norce was reprimanded, but the scholars discreetly reported his progress to the king. At the end of his penance. Norce was allowed to join his father in the field. The model was retired to the Treasury

On this occasion, the king was returning from a forcian embassy and was encamped in arid canyon lands on the southern frontier. Norce arrived with a supply train, and his father greeted him in the formal way prescribed

for falconers. Although the boy had not seen him for months, he affected the same arctic manner. His father's instrument was inside his tent, immobile

on a cast-iron perch. It was then inhabited by a battler eagle. This had not been his father's first choice, but it had proven to be a strong and perceptive hunter. It had already driven off or captured five Sprites and a Fugitive during the prior week as well as a shadow that could have been an Enemy. His father briefly warmed when discussing these sorties, and held his bands out in front of him, one flat to indicate the instrument and the other in a fist for the invisible targets, weaving one around the other and smiling as he illustrated each interception

The instrument's ocular globes were fabulously complex, incorporating twelve concentric irises, each sensitive to discrete segments of the temporal and nontemporal spectra. Additional perceptive faculties were chemically integrated into the humors surrounding the eagle's im-

planted eyes

It was three times the size of any natural raptor, filling and shadowing the tent's interior, dark blue light reflecting from its acid-milled titanium feathers. Norce therefore wondered out loud why an instrument just one more order of magnitude larger had never been constructed. One large enough to accept the eyes and mind of a man-

His father's tone regained its distance as he explained that there were only a hundred real flyers left in the world, and the art of their construction had been lost for ages. It was enough to preserve the ones they had and be thankful for antiquity's gift which allowed them to protect their great men from the hostile spirits of the air. New ones of any sort could never be built. Men were therefore properly the inhabitants of the earth's and ocean's surface: they should build their towers no bigher than was required for a modest grandeur and the purposes of terrestrial defense. They had no business in the sky; only their instruments could safely go there

The two of them relieved the other falconer in the king's party that night. There had been a third falconer. but a Fugitive had seized him before he or his instrument could react. Fortunately, the instrument had not been harmed, and even captured the mad spirit as it departed the man's corpse. Then the implanted goshawk had been removed and incinerated with its captured soul. A black shaheen had replaced it in the instrument, and it was this instrument which was on watch. The third flyer, with an inexperienced syrfalcon inside, stood in reserve

The other falconer reported all quiet and took the sha-

heen instrument back to camp. Norce's father reviewed the watch log, noted the time, temperature, light, altitude density and the other aspects of the perceptible world that were relevant to the detection of spirits. Then he listened to the surrounding wilderness for what seemed to Norce to be an overly long time. See a mything?

The boy looked up obediently, hurting his eyes with the setting sun. He found nothing aloft but a mortal kite.

the setting sun. He found nothing aloft but a mortal kite.

"Nothing at all?" The great instrument rested on its iron
perch in front of them. Norce strained to recognize something suitably ominous. The sky seemed perfectly safe.

"There" His father pointed, and the boy saw where the air had thickened. Then there was a smooth, whispering sound, like someone inhaling in the presence of an exhibitating danger. The instrument extended its wings, fowered at so body for additional thrust and launched almost vertically from its perch. It oriented uself toward the note of chief air and accelerated unward.

patch of clotted air and accelerated upward.

"If we could do that ourselves . . . ?" Norce asked.

It rose above the target, gaining altitude to dive on it.
"We can't. We shouldn't want to. Look! What do you
say? A Sprite? Fugitive? Perhaps even a true Enemy? We
almost causht one before you arrived, you know!"

Norce strained to recall his lessons. "Not an Enemy. There's no nimhus of static discharge and no temporal

evasions."
His father nodded approvingly.

"But it's a large distortion and has enough implied mass to allow me to see it."

"Should we bring it down?"

"We' Nonce was flattered. "We should, shouldn't we?

"We?" Norce was flattered. "We should, shouldn't we With the king so near."

"Though if it's only a Sprite......" His father left off

purposely, waiting for the hoy to fill in the rest.
"... airy spirits of evil inconsequence / that prey on orchids and the wisps of clouds."

His father smiled at the quote from Spencer, "Good! But they have consciousness. An instrument with a good raptor inside can tolerate twenty or more of them, but they still leave a residue that accumulates in time and can then rain the one flight that's scally needed. That's

how your great-grandfather lost a king-elect, you know. "Sprites can also be manipulated by Enemics as screens and diversions. Then they're called Masks. But I don't think we have one bere, because they're usually

herded about in groups then.
"So that leaves Fugitives, Unknowns and Tricks. The first two have always been dangers to the throne. They covet souls steeped in power and decision. And who

knows about the last?"

The instrument was now harely visible, circling two kilometers above the ground. Then its wings disappeared. Norce blinked, and it had dropped more than a hundred meters straight down before he reacquired its silhouette. "Strike" his father whispered as the instrument's tra-

jectory intersected the knot of air. It wobbied hriefly, then continued downward. It flared its wings at ten meters and opened its gold-

sheathed talons. But the approach was misjudged and it overshot the iron perch, plowing heavily into the ground to their left. Norce's father held him back. "Wait" Then the falconer walked his boy around to the front of the instrument, so they could look into its face. The right wing was partially torn off, and hydraulic fluid seeped from the exposed joint. Electricity arced across jugged tears in the flyer's surface.

His father approached the machine carefully, testing the air in frost of him with his hands. The instrument flopped weakly until it raised is head enough to fix them with its one unchanaged eye; pieces of crystal and glistening humous spilled from the other socket. The good eye regarded them with restrained panic, the cawie's nained necous system deading for preception.

Fear weakened Norce's less, Enemy, he concluded. the full text of each school treatise now clear, all diagrams fully recalled along with the secret, oral histories that had been endlessly recited to him: Enemies were souls which were powerful enough to free themselves from their mortality and attain the sky through an act of will. Once self-liberated, anger against the discarded earth invariably consumes them and directs their actions. This is contrasted to Fugitives which depart their mortal brilles because of a trior madness, rather than the other way ground. Both had been human or nearly so. Along with those of baser origins. like Sprites and enigmas like Unknowns they controlled the sky from a hundred meters above the ground, unward, the scholars taught, forever to the stars. The new fortresses and cathedrals of man cowered below this domain; all the old constructions that still intruded up into it were haunted.

"It's an ancient battle," his father remarked that evening as he repaired the instrument. "And we three hundred falconers—in all the world—are the only ones who can fight it. "Guardians of the long," and how the ladies love us for it. Even the practorians envy us."

It was quiet outside. The king had already decamped, the protected airspace. An excort of two more flyers inhabited by spanrow-hawks had been summoned to meet him. "Could this be a Trick?" his fisher asked, pushing back from the machine. 'Sprites are branless and Fugitives are crave. A true Enemy would have destowed it-

self by now, if it hadn't taken us out first."
"The never ..."
"They're very rare. Lots of stories, but not much real evidence. They were supposed to be the spiritual contemporaries of the instruments themselves. Built by men at the same time—completely artificial—and set free in

spite when the flyers were ... expropriated by the great houses of the world." Then he leaned back over the instrument and picked up his jeweler's tools. "Perhaps not so remarkable..." But if this is one of these creatures, don't procedures resource remarkable in suggesting this.

His father did not seem to notice the remark. Instead he raised his hand and pronounced judgement: "I believe it to be a Trick. An artifact as old as the instrument that captured it and which it may now still inhabit. It's possible it came from the same builder as our instrument." Nonce was instantly seized by this idea, "Then the intelligence now inhabits the machine, instead of the eaole's mind?"

His father pressed a sequence of points on the instrument's head with his protected hand. The functioning eve dulled and closed

It showed no signs of conscious inhabitation during the night. At dawn, they brought it out into the open space where the kine had been encamped. The back of the fiver's head and spine opened and the neural interfaces automatically withdrew. His father dissected out the eagle's remaining eye, begin and spinal cord and quickly placed them on a pyre of magnesium shavings.

Both men braced themselves against the psychic scream of the incinerating intelligence. The morning remained undisturbed

When everything was turned to white ash. Norce's father returned to the instrument and washed its interior with hydrogen hexafluoride and bioscouring agents. The panels were closed without installing a new ractor The falconer executed a command sequence on the

concealed buttons. The machine's neural cavities were empty: all its bioelectrical circuits were onen and unbridged, yet it leapt to its nerch, arranged its wines and centered its head. Its gaze was intensified by the absence of living eyes inside its ocular globes. Thus its pupils were unnervingly large and inquisitory, and Norce's father quickly placed the hood proper, made of cloth-of-gold and embroidered with circuit lines, over its head. He spent the next hour probing the machine's structure with his hands attaching instruments to the board or standing back at various distances to gaze at it or up at the sky

They cooked dinner and slent beside their instrument Inhabited fivers shifted while in repose like the real birds within them, but now the instrument was motionless unless his father removed the bond: then its head would swivel around in three or four quick movements, taking in the whole of the night sky before returning to its original position. The spirits were generally quiet at night, only rare Enemies with small escorts of Masks were thought to fly

then, so there was little to be concerned about. The machine was animated by dawn light. As soon as his father removed the hood proper, it exploded upwards, executed a climbing turn to the right and ther dove back to its perch. This flight required nine seconds.

"Sprite?" Norce asked when he recovered his breath. "An Unknown, or just a show to impress us?" The instrument's eyes revealed nothing. His father re-

placed the hood and took more readings. "Too weak to register outside random error. It was probably nothing But even if it was, there's nothing inside now to purge if it did snag something." They set out after breakfast to rejoin the king, whom

they overtook the following noon. He personally welcomed them, to the displeasure of his other falconer. The black shaheen's hunting style was too placid for the king, and his majesty said he was greatly relieved by the protection their instrument restored to his narry

The king's mood was further improved when their instrument reneated its morning sortie ten minutes after they arrived. This time there was a confirmed target that was

not spotted until it was only two hundred meters above the royal person. The shaheen detected the target at the same time, but theirs moketed up from its neigh. Daueting its incredible acceleration by climbing in a tight spiral instead of a straight nath. It intercented the pulsing knot of air from below on the first pass without seeking any advantage from superior altitude. Norce had been taught that this was a tactical impossibility. The king signified his admiration by giving Norce's father his ivory-hilted dirk on the soot

No one noticed the size of the instrument's over Novce's father oxickly placed the hood proper over its head and conveyed it away for supposed purgation. Notice remained in camp, knowing that there was nothing that could be cleansed from the machine, nervously deflecting the king's and his other falconers' questions with the ies he and his father had rehearsed all the previous day.

In their tent that night, his father wondered if the instrument had either found a way to annihilate the spirits it cantured instead of just containing them, or if it had evolved some way to accommodate such presences and still function. If it was the first possibility, he said dreamily the sky might be cleansed and men could travel through it again, as legends argued they once had. The implications of the second theory were less clear. Having little mass. Sorites or Fueitres might be stacked one on top of, or within, the other without practical limit, "But" the older man continued in the dark, 'no instrument has ever accommodated more than thirty captured intelligences before the resident nervous system lost coherence."

There were no more threats to the king after that Their instrument may have found an isolated Sprite as they neared the capital, for it flew off in the morning haze for fifteen minutes. Its eyes revealed nothing when it returned, so the easy conclusion was that the sortie had been unsuccessful.

That fall, their flyer beat out three other instruments in bringing down a confirmed Enemy that had penetrated the capital's precipcts under the cover of a thunderstorm. It had appeared as a ball lightning, darting and drifting to evade casual detection as it stalked the kine. who was enjoying the storm from under a covered promenade. There was a terrific explosion as the fiver captured it, again attacking from below before its watch companions had even begun climbing for altitude.

Intercepting something that powerful would have left a conventional, inhabited flyer incapable of controlled flight. This machine, however, merely circled the spot where it collided with the entiry letting static discharge over its body before gliding back to its perch

His father was awarded with a leather hawking gauntlet, embroidered with seed nearls. Notce was presented with a girl three years older than he was, but found it difficult to receive any pleasure from her.

The instrument's hunting radius increased to take in the whole of the royal estate. The king instructed Norce and his father to each attend him with their instrument for half the day, so that he would be constantly protected. He was therefore able to move with impunity through his domains, and the jealous rulers of neighboring states. walking bent from their ancestral fear of the sky, sent suboreurs to bring him back down to their own fearful mortality. Practorarus dealt harshly with these agents. The kingdom prospered, even to the extent that some men discussed returning to the sky, first by reclaiming the hemselic towers of ancient cathedrals and then, more holdly, in devices of ash and fabric such as were

depicted on the mosic flows of those some buildings, but his finther how the midlipences were accumulating within his nortunent. The rulai of purgation after outh mentally second interaction was offer interaction and the second interaction was off of this occupy began to weight visibly on him. It required, after the concentioner of conceivably partie dangers. He had to concent of how many parties the institute most of his occur of how many parties the institute most off the second of the second parties the institute of the second of the second parties the institute of the second of its huns. If they like forever in it, if they intervance where sections might occur. This is all subsent of failures are men of uttrabetter matikens, but this knowledge is a most of the second of t

Clearly torn between his excitement with hunting the greatest instrument in memory and his growing fear over what it was becoming, his father attempted to secretly implant the mind of a peregrine, which was agreed to be the strongest of all the raptors that could inhabit a flyer. It seemed to change for a few days. The machine's

pupils were naturally reduced to a natural size, now having the raptor's eyes locked within its own, and it hunted much nearer to the palace, utilizing conventional tactics. But then its coordination deteriorated, and when his father opened the cranial vault be found that the peregine's mind had been humed to white ash.

He reassembled the machine empty. Its eyes opened at once, and the vast pupils stared at them before rotating toward the zenith. Then it leapt up and was gone hunting until the sun set.

Noice watched his father decline after that. The fearlove that the scholars had warned about was betrayed in the man's gestures and choice of words when he spoke about his instrument or prepared to go on watch with it. The man aged accordingly.

Note: would have sought help or at least warmed the court, but he had so strengthened his own metal deferees that he could by now barely communicate with other people at all, let alone explain with the feared was happening. He lone what if he and his father had not already communicate with other had not already comment exeasen, they had surely particles of the ways. By watter, he did not even dure try, for the uncline auto-pated him too well. It watched him and the sky in the same and metal the strength of the same had been always to the communication of the same and the sky in the patent had the same and the sky in the same and metal the same and the sky in the patent had the same and the sky in the patent had the same and the sky in the same and same sky and the sky in the same and the

Finally, his father did nothing but drone on hopefully about the instrument and how any danger accumulating inside it would still be less than what remained aloft. Norce never chanced a reply unless the machine was at least five kidometers away. He was terrified that if the old man went mad, a Fugitive might be created at the moment of his death. Then, he believed, he would be obligated to hunt his father's spirit shadow with the instrument, having no idea what would become of it after its capture.

The old man's flesh collapsed around his bones. He avoided movement and then even speech. The king no longer visited him or his son when they were on watch, although he insisted they remain at the service of the crown. Many of the other falconers left the kingdom or petulantly neglected the condition of their own flyers.

In April, Denver, he father about yet measured to the father and the father than a forested more than a thousand intelligences since it had been occupied by the Track. He decided the machine's intent to be an intelligence since it had been occupied by the Track. He decided the machine's intent to be an intelligence with the track of the trac

Noce heard the words from some great remove, so complete were his control off defenses and faigue. He had to still his pertiplent vision while distracted by his father's speculiations. By impreceptible degrees his body failed as his mind tried to increase its distance and selfcontainment, instinctively employing the faboror's and. Then the distance increased uncontrollabily and the sense of spiticula acceleration tore at him with a told force, until his mind buzzed within his empitted body like a fly in a bottle.

He observed the flyer through a newly vacated eyescoket. The machine returned the stare with equally empty eyes that were nevertheless charged with energy. Notrefelt his mind drifting up, away, and urged himself along to escape. The horizon was discernible, but he could not understand its significance; orientation was impossible. High above, toward the zeralth, where it was least nain-

ful to look, there was a scattering of luminous points, classering thickly enough to suggest nebulae. Because his attention was directed upward he did not think of the instrument's customary climbing attack, and was only aware of it when the speckled blue of the inhabited upper atmosphere vanished in the flash of interception. Darkness followed in which his spinning was arrested.

Norce looked around and saw only through the flyer's eyes. The elaborate interior circuitry encircling them gleamed in reflected sunlight. He moved forward to these windows, recalling his old dream of flight.

He reached the eyes and looked down onto the paraper from which he and his father had kept warch. It saw the cast-iron perch the instrument was descending to and the palseid figure of his father hending over his corpse. The old man looked up in fear at the returning machine. Then Norce became aware of the other intelligences that were packed into the machine and of the ske's invaluable conterned for man. •

Fifteen-Love on the Dead Man's Chest



Charles Sheffield

"Everything," Waldo said morosely, "is relative."

He slumped low in his office chair, a man bearing the weight of the whole world

I nodded in mute sympathy. He was right, and there was little that I could do to console him.

"It's ridiculous," he added.
"I mean, it's not as though I was dead."

I could only nod again and reflect, not for the first time, that there ought to be a collective noun to describe the group of relatives who, unseen and unheard from since early childhood, rush in after a family death to attend the reading of the will and to fight over the best bits of furniture. A concupiscence of nepheus/8 grad to grandson/8 A cover of cousting?

Except that in Waldo's case, none of these applied. He was merely the victim of circumstance. As he rightly remarked, he was not dead, and nothing but pure coincidence had decreed that, in the same month

of the same year, a major tennis tournament and the sobar system's largest morticians' convention would be held in Luna City. And long before that, nothing but blind fate had persuaded his maternal aunts, Ruth and Ruby, to choose for their soulmates a wealthy tennis fanatic, Pharano Potter, and a leading undertaker, Mortimer C. Wilberforce.

The four had moved far away, to Mars in the case of Plazanch and Ruth, to the Venus Dones for Mordiner and Ruby. But now they were back, Pharnok, after many years of talking about winning a tennis tournament, had actually entered as a player in the Luna Senior Doubles, and Mortimer C., still obliged to work for a living, was enrolled in a Do-la-Youself embalming course on the other side of the city while also naking in the convencies when the city while also naking in the conven-

tion, plus the occasional funeral, for entertainment. Simple pleasures, you might say. The bad news was that both wives and husbands were staying with Waldo; and by their attitude the four members of the Potter and Wilberforce party were making him most unhappy. As he complained to me, they usahed him around all the

time. He ddeht know how to argue with them. It's a baffling thing. You have one man who spends his whole life hitting a little bail so some other half-wit can lit it back to lam, and another who paints up dead hoddes so they'll look nice and healthy when they're barned or burled. You have their two wives, who do nothing at all. Yet all 0 of them look down on Waldo, be-

cause he is a lawyer.

And it's not as though Waldo had plenty of time to entertain his odious relatives. Quite the opposite. He and I, after several slow months, had just become busy with what could well be the biggest case of our careers

It had begun with no more than a rumor. There are certain words that will start one, anytime or anywhere that they are whispered or even hreathed. The this words immortality.

But to Waldo and me it had been no more than a rumor. In Luna City rumors are as common as cockroaches, and about as fast-moving.
All that had chansed, though, with the late night ar-

All that had changed, though, with the late night ar rival of Imre Munsen at the offices of Burmeister and Carver, Attorneys-at-Law.

Imre Munsen, Special Investigator for the United Space Federation; Imre Munsen, my nemesis, convinced desplte much evidence to the contrary that I was, like him, a starry-eyed, patriotic hero with nerves of steel. Imre Munsen, with the authority to force anyone to do anything that he asked. Imre Munsen, utilor I, never wanted to see him again.

Imre Munsen, idiot. I never wanted to see him again But there he was, sitting in Waldo's favorite chair and shaking his rugged-jawed head at us.

"Perlaps not a mere rumor, gentlemen. There may be a lot mome to it han that. Here's what we know, forcratin sure. Carlo Moolman flew to Luna last week, from Oberon. He chimed, and he wasn't bashful about it, that an inventor out there had discovered an "immortality serum' Moolman said he actually had a sample with him, a little pital of logisd. He didn't claim it would let a person live fecerer, but he did insist that it would no crease your life expectancy to a thousand years. He wanted to sell shares in its development and marketing. What does that suggest to you?"

Waldo and I exchanged glances.
"A confidence trickster," Waldo said firmly. "Looking for suckers. Everybody knows there's no capital available.

on Oberon."

"True." Munsen leaned forward, and gave us his patented strebuewed plane. "And Carlo Mechanic does hav-

remen seerly-eye gate. You can be some a common does not pen to have a criminal record. But suppose this time it's different. Suppose this time be's telling the truth?" "I wouldn't put any money on it if I were you," I said. "Maybe not. But the USF bas to take the possibility."

seriously. Can you imagine what an immortality serum would do to the solar system?"

Wakko suddenly took on a mounful air. I think he

Waldo suddenly took on a moumful air. I think he was imagining Ruth, Ruby, Pharaoh and Mortimer stay-

ing with him forever.

"I don't understand this," I said, "Carlo Moolman came to Luna, and presurrably since you didn't say he left, he's still here. Why not take him in for direct questioning? If it comes to that, why not go to Oberon and question the inventor of the semin."

"Excellent thinking, Mr. Carver." Munsen favored me with a flash of white teeth. "We can't do that, for two very good reasons. The inventor is dead; and so is Carlo

very good reasons. The inventor is dead; and so is Carlo Moolman."

It was not difficult to spot a certain weakness in Imre's argument. "Two men with an immortality serum." I be-

argument. "I wo men with an immortality serum," I began, "and both are dead—"
"But not of natural causes, Mr. Carver. I don't know about the fellow back on Oberon, but I saw Moolman's

body. Somebody blew a hole in his belly, hig enough to put your whole head through," A less appealing course of action was difficult to imagine. I suggested as much.

ine. I suggested as much.
"And of course," Munsen went on, as though he had
not heard me, "there was no sign of the immortality
serum on his body."

"Might be have drunk it himself, or hidden it somewhere on or in his body?"

"Not according to the autopsy. No." Mansen stood up and began to pose around the office." I think that if it existed at all, he hid it. But where? There must be a clue, somewhere. Were looking, you can be sure of that. Meanwhile, his funeral is the day after tourserow. And of course, the centrelse may stirred—the people who is comediated to the course of the course of the course in the course of the course is the course of the cours

"So you and your men will be there," I said slowly. I didn't know what was doing it, but I felt an uneasy creepy sensation up my back, as though a Hidalgan centipede was ascending under my shirt.

"Me and my crew can't do that." Munsen shook his head firmly. "We're too well known; we'd be recognized in a minute. Anyway, we'd have to more or less force our way in. What we need is someone who can be invited to the funeral in a natural way. Someone like Mr Burmeister—whose uncle, as I understand it, is a hig wheel in mortician circles and could get him invited into almost anything connected with funerals."

I felt a giddy sense of relief. The Angel of Death, divebombing in on me, had suddenly vecred aside and picked the next man in line.

"Of course not " said Waldo

"Actually, Mr. Burneister is correct," Mansen agreed. "Actually, Mr. Burneister is correct," Mansen agreed. "He won't quite do. He is—with all due respect, Mr. Burneister—rather too conspicuous because of his size. We need someone less noticeable, someone who can keep a low profile, blend into the background. Some-

one like—"
"I don't know Uncle Mortimer. I'd never get invited to
the funeral."

"Mr. Burmeister could invite you to dinner at his home."
"I don't have the right clothes for a funeral."
"They will be provided. Black top hat, dark cutaway

coat, black polished shoes, everything,"
"And if you just let Uncle Mort talk corpses to you for an hour or so, Henry," Waldo said cheerfully, "he'll be so

tickled he'll get you invited to any funeral on the Moon. He's been trying to deng me to one for days. What a pity, as Mr. Munsen says, that I'm too conspicuous." Waldo stared down happity at his ample belly, and hugged his fat to him like a protective shield.

I wondered, in a hopeless sort of way, how much fat a human being could put on in a couple of days. Not enough. I felt sure, to save me.

Waldo had described the family dinners to me, but I had discounted much of what he said. Having seen Waldo's own provess with a knile and fork, I deemed it remotely improbable that anyone at a meal table could deprive him of his rightful share of sustenance.

That, of course, was before I met the Potter and Wilberforce wives.

I arrived a few minutes late. Waldo was busy in the

I arrived a few minutes fate, Waldo was basy in the kitchen, and at my first sight of his living-room when I entered, it seemed totally filled with aunts. A second look revealed just one massive pair, trampling and trumpeting like angry mastodons over the mangled ruins of trays of hors d'œuvres.

Ruth and Ruby were a year apart in age, and perhaps two kilos apart in bulk. There was less difference between them than the mass of any one of their many chins. I used to blame Waldo for being fat, but after I saw

his aunts I vowed never to accuse him again. With such genes, he didn't stand a chance, in fact, it was a tribute to the size of Ruby and Ruth that Pharach Potter was not himself a noticeable landamie, He was a big-framed man, well run to seed now but still possessing plenty of musele on arms like a gonful. He shook my hand, in a grap that mashed my bones together. "Play any tennifs" he said.

"Haven't for a while, I used to." It seemed the safest anser express interest, but don't let yourself get dragged into any possibility of playing. I did not know it at the time, but my reply exhibited an uncanny prescience. "I never was much good," I added. "Because you're little and weedy," Pharaoh replied. "A person needs some *weight* to make decent tennis shots." He went off to sit in the corner with his head bowed. He was a man annamently in the orio of some orner sorrow.

I surred to Mortimer C. Wilberforce, just as Waldo called us strough for dinner Mort was the old man out in the group, a function I suppose of his job. It's probate year of the control of the processional requirement among morticians, that if you care's actually de a corpus, you cought to look a much like one as you can. Mortimer did his best if he been also made to be a sey out on. Mortimer did his best if he been also for foreign of the control of th

I suppose he ate, but in this he was rather like a government official working. No matter how long and hard you looked, you would never see it happen.

From my point of view, his behavior at the dinner table had one great disadvantage. I wanted to talk to him, but like a mute at a funeral he had no conversation and no apparent interest in anything. He seemed half asleep. It was left to the others, and Phararob in particular, to make the inning in the talk denartment.

Which he certainly did. According to Waldo the dinner table conversation usually consisted of a catalog of deficiencies, Waldo's personal ones and that of the free food that he was providing. Tonight, however, another concern predominated.

Plurach Potter's tennis partner had become disabled, and would be unable to play the next day. Plurach seemed to regard this as an Act of God, although he admitted that the other's injury had occurred when Plurach knocked him flat and ran right over him.

"It was actually his own Fault," Pharaoh explained. "He was poaching. The ball was clearly in my territory on the court. He should never have been there at all." "But now, my love," said Aunt Ruth, "you have a problem. You need a nartner."

"Yeah. I know." Pharaoh glanced along the table. I could see him dismissing me.

'Little and weedy.' Well, better that than a great fat

Line and weedy: well, better that than a great rat lout.

Mortimer, as the closest living relative of the stick insect, received an even lower approval rating. Ruft and Ruby were clearly A-1 in the weight department, but

I watched the wheels turn. Adequate weight, certainly. Apparently in good health, as anyone must be who could hold his own with Ruth and Ruby in the struggle to be at the top of the food chain. Available tomorrow, since lawvers never did any useful work.

My business partner, distracted in his tug-of-war with Aunt Ruth over a dish of sliced green beans, turned to face Pharaoh. "What?"

"You. You can be my tennis partner tomorrow."

"I cannot!" Waldo, in an excess of emotion, lost his grip on the plate of food.

"Of course you can, Waldo," Aunt Ruby said firmly.
"You know how to play. I've seen you."

"When I was a child!"
"It's like riding a bicycle. You never forget."

"It's like riding a bicycle. You never torget."
"I have to work tomorrow."

"Nonsense. You can take a day off." Aunt Ruth turned to me. "Can't he, Mr. Carver? You can spare him, can't you?"

It was time to come to the aid of my old friend and colleague. But I could not forget that I was supposed to attend a funeral tomorrow, where more than likely people would be trying to fell me. Compared with that, a ternis tournament was nothing. And Waldo had been more than lappy to throw me to the wolves who had murdered Carlo Moolman, so long as he didn't have to face them himself.

I nodded. "I can spare him."

"I don't have a tennis outfit." Waldo was grasping at

"As it happens, I have one in the next room," Pharaoh stood up, "I bought it for my old partner, but for some reason he refused to wear it. He's just about your size, too."

He was back in half a minute. In his hand he held a tennis outfit. Waldo gave it one appalled glance.

"You can't expect me to wear that! Look at the color."
"What's wrong with it? A nice, warm brown."

I realized at this point that Pharaoh Potter must be color blind. What he was holding was the most hideous shade of hot pink I had ever seen. If Waldo wore that, he

ought to be arrested for multiple offenses against society.
Waldo thought so, too. "It's hideous," he said. "Isn't
it. Henry?"

"It is. But you can have it dyed."
"Mmph?" Mortimer jerked into life at my side. "Who

He was awake at last. I had found the magic word. Leaving Waldo to fight on alone, I seized my chance, and threw at Mort a snappy series of questions on the theory and practice of embalming.

In five minutes, as Waldo's weakerung howls of pretest rose from the other end of the table. I Rosev I had Mortimer C. Wilberforce enting one of my hand. Certainly by he knew the ragis function home directors. Surely I would be welcomed at the final rises for my friend Carlo Moothman. The would arrange at Walt a pleasure it was to never a man with a proper interest in Internals. All brepating the proper interest in Internals. All brepatine drives.

I was able to reassure him. On that sort of detail, Imre Mursen was infinitely reliable. I promised that I would sectually arrange for the outift to be delivered to Waldor's home tomorrow, so that Mortimer could review it personally if he so chose. He didn't seem to think hat would be necessary. When I described the promised clothing to him. he nodded amorwal of every last stifts.

to him, he nodded approval of every last stitch.

For his part, Mortimer assured me, if he was not present himself when I arrived to change into my funeral

garb, he would make sure that directions to get to the funeral home—one of Luna City's biggest and most prestigious—would be written on a little yellow card and left on the hall table.

On the institute.

Diliner was over, the evening's work was done. I made an earlier than usual departure. Waldo was still fighting a energuptar destine, but I knew already that he had best his argument. He would be Pharaoh Potter's tennis parter fomorrow. It served him right for abandoning me to Imre Munsen. Still, I had to leave. It gave me no pleasure to see a grown man's misery.

I shough that I had allowed pleaty of time to gas dessed, after a mixed at Waldo's home the next day. But there may be a first a mixed at the state of the state

I was already late when I am downstairs, grabbed Uncle borts little yellow eard from the hell table, and hurried out. Then it was bad hock again. It was sen more minutes before I could flag a groundcar cab to take me through the complex multiple domes of Luna City toward my destination. I lad never heard of the address of the funeral home, but that was no susprise. Luna City to gain grew and grew, bigger and nore difficult to noti-

Totile was hell, and half the time we didn't seem to be moving at all. When I at last paid off the cab, I glanced at my watch I should have been here twenty minutes ago. Did financiar num on scheduled: As I hurried inside and along a dimly II and seemingly endless tunnel, I wondered if liment inporters had a special word to describe people like me, who did not arrive on time for the economy. The law Henry Carver' would be too

The tunnel made a final right-angle turn, and abruptly ended. I dashed the last ten yards and emerged into a large open space.

Suddenly I had trouble breathing. Perhaps it was the tightness of my collar, cutting off the blood supply to my brain. Perhaps it was the light, far brighter than I had expected.

Or perhaps it was the fact that everyone standing close to me was dressed in tennis clothes, while all around me a crowd of maybe two thousand people roared with delight at my appearance.

In my surrealist daze, I saw one familiar face: Pharaoh Potter, I went to him. "There's been a mix-up," I said. "I got the wrong address card. I'm going now. I'm supposed to be at a fu-

I started to edge away, but Potter grabbed my arm.

"Are you trying to tell me that Waldo's not coming?"

"I guess not."
"But he's my partner!"

"I'm sorry about that. I have to go." I tried to pull away again.

away again.

But Phirmoh still held my arm, He stuck his red face close to mine. "I didn't travel fifty million miles, and get this far in the tournament, not to play. You stay. You're coint to be my nartner. You said that you know how to

play tennis."
"That was twenty years see! Eve foreotten."

"Then you'd better learn again, real quick." He raised his racket, and his muscles bulged, "Unless you want to leave here with a couple of broken arms and a concussion and your liver tief in knots."

Pharaoh certainly had a way with words. Five minutes later I had been equipped with a nuclet and stood wait-

ing to receive service.

It had not been an easy few minutes. The crowd, pleased already by my initial appearance, was eestatic to learn that I would stay to play. The wits among them went to town.

"Five to two against Gravedigger Jim and Fat Jack

"Done! They're bound to win once their reinforcements get here—you know pallbearers always come in sixes."

"Ashes to ashes and deuce to deuce."

"Hey, Mister Undertaker, don't ask me to stay for

your service."

Our opponents also did not escape the notice of the masses. They were Mason and Mulligant Coot, two shimingly bulk-bused and howleaged brothers of like age and physique, once presumably athletic, but now only slightly less creating and must below and have Plaurob slightly less creating and must below than Plaurob and the plaurob and

"New balls, umpire. Those two have lost all their fuzz."

"Come on, the bandy-Coots, Show a bow leg there."
"What did Gravedigger Jin say to the Cootie brothers?
"Who'll inherit your money, when you've got no hair apparent?"
Even had thinss must come to an end.

"Play," called the umpire. Mulligan lifted his racket. One second later, a head-high serve that I only just saw went like a bullet past my right ear and on into the crowd without touching the ground.

"Out," called a line judge.

"Well left!" cried Pharaoh Potter. "Second service," said the umpire.

Mulligan raised his racket again.

I saw this one coming clearly enough, but I failed to

hit it.
"Out!" shouted Pharaoh optimistically.
"Got to move faster, Gravedigger Jim!" cried someone

in the crowd. "Stop imitating your clientele."
"Fifteen-love," the umpire said. "Quiet, please." But
he spoke without much hope in his voice.

Things did not improve as the match went on. I had dispensed with my top hat at the outset. After a couple of minutes of running about in stiff black leather shoes. I was forced to take those off, too, or blister my feet beyond bearing. Soon after that, the heat of battle led me to remove my jacket and tie, and to open my shirt all the way down my chest.

At that point the coarser elements of the crowd, for whatever reason, changed their line of attack. They now affected the conceit that I was neither a tennis player nor a pullbearer, but a male stripper.

"Let's see them flowered undies!" they called. And "Don't be shy, sweetheart, give us a peep at your wedding tackle," and "Take 'em off, take 'em all off!"

With such districtions, it is not easy to play one's best. By is, in fact, not even easy to play one's worst. Phorn Potter and I began dissertously, four games without a single point, and we would savely have continued that way hed not I, in the middle of the fifth game, stuck myredict in the way of a specding toppopin foreband, which will be a supposed to the supposed to the play of the single part and accidentally popped the ball way up into the art for an easy made your strainly.

Mason was standing waiting, in a perfect position.
"Mine!" he shouted to his partner watching at the net.

"Hit it ha-a-a-a-rd," Mulligan roared

Mason did. Stepping back a couple of paces, he drove
the ball with supernatural force and accuracy straight

into Mulligan Coot's open mouth.

The line judges pried it out all right, with a little bit of effort; but after that the Mason/Mulligan combination

effort; but after that the Mason/Mulligan combination was never the same.

Mulligan, you see, was convinced that brother Mason had done it on purpose. The next time Mason was up at

the net, Mulligan took careful aim and sent his rocket flist serve smack into the back of his partner's bald head. The ball rose about a hundred feet in the air before it came down—on our side of the court and in play, oddly enough, but of course the point was already over. Their teams went rather downhill from here. With

neither of them willing to approach the net for fear of fleave wounds, and each trying to make sure that he stood at all times safely behind the other, anything of ours that managed to creep over the net to their side of the court became a new-suitometic winner.

Even so, it was far from a rout. They still had power, and when they could not aim at each other their shots came screaming across the net like artillery shells. On our side, we swung and sweated and cringed and sliced and hacked. Pharnoh lashed out in a ferocious half volley at one ball right at his feet, then had to take a break to pry his mutilated left big toe from between the strings of his racket.

I was not without my own problems of timing. I flailed at one of Mulligarn's whizing forehands and missed it completely. The half flashed past my questing racket and vanished uside my open shirt. No one—partner, opponents, umpire, or onicolens—had any idea where it had gone. It was not until I wriggled and squirmed, and the ball to the crowd's delight appeared from the bottom of my black trousers, but the point was decided.

Even that infuriated Pharaoh Potter. "You should have kept it hid," he growled at me. "They hit it last. It would have been called out." Pharaoh wanted to win in the worst way. As we went on, I realized that might be exactly the way we would do it. On the other side of the net, Mulligan and Mason cursed and hollered at each other, ran backwards far more than they ran forward, and tried to return the ball only when their beother and preferred target was nowhere in the field of view.

We lost the first set but we won the second one easily. The third and final set, however, was something else Pharnoh Potter was too far for sustained running and I, while trim, had the muscles and stamins of one whose dily exercise seldom went beyond lifting a restraining

order.

Mulligan and Mason had started in better shape, but
since the fifth come they had been continuously running.

since the fifth game they had been continuously running to get behind each other, and shouting brotherly oaths and accusations as they did so. They were also peppered with round pink impact marks, and they sat at courtside longer and longer between games.

The match in its third set went the way that I rather imagine the heat-death of the universe will go, entropy increasing to a maximum and everything gradually run-

ning down.

Pharaoli and the Coot brothers were built for short sprints, not for endurance events. Rocket serves became light zephysis that drifted over the net. Returns, if they happened at all, floated through the air like summer thistledown. Protests at line calls became increasingly

As the pace slowed, the crowd quieted. Only our anguished sights and despairing groans punctuated the gentle ping of ball on racket.

It went on for an endless age, and I knew it would go on forever. So it was a great shock to look up at last at the scoreboard, and find that Pharach and I were leading by five games to four, with my serve to come next. I was in a position to win the match.

At that point, the crowd became totally silent. I think they realized that they were witnessing something unique in tennis history. Alter all, how many other final games of a tournament match have been played with three of the four contextus sitting down?

It had been hard on all of us, but the other three were carrying twice my weight. For the final game, Mason Coot sat in the middle of the court. His brother slumped a few feet in front of him, all fear of violence from behind long since past. On my side Pharaoh was close to the net. Iving face-down on the center line.

All I had to do was serve to the right part of the court and we would win, because no one else would move no matter where the ball ween. It gives some idea of the quality of my play when I confess that the game went to deuce seven times, before the uniprice could at last proclaim, "Game, set, and match to Potter and Carver."

The crowd swept onto the court and carried us off. They had to. The victory ceremony was conducted with

all parties lying down.

Pharaoh and I not only won our match, we won another prize, too It was a special award, given for the contest that in the opinion of the crowd was the most enthralling of the day. No one else, I gather, came even

I thought that Phamoh Potter might be offended about in once he had somewhat recovered. But not at all; to him, a tennis trophy was a tennis trophy, however won. He was thrilled, and when he could again stand up he insisted on taking us to the pavilion and buying me and the Coot brechers, our good buddles now, as many drinks as we chose to take in.

In our depleted condition, that turned out to be tather a lot. It was maybe four hours later that I was buttoning my shirt, seeking my shoes, and reflecting to myself that it had been, despite a bad beginning, a perfect day for me as well as Pharnols. I had never before, in my whole life, won anything in an athletic event. It is strange what such an experience can do no man's my

A perfect day, I thought.

I wrinkled my brow.

Perfect?

That didn't seem quite right. Shouldn't it be almost perfect?

Something started to drift back into my muddled consciousness. Hadn't I been supposed to go to a funeral?

I had Carlo Moolman's funeral. What about that, and what about the immortality serum? If I had come to a tennis match instead of a funeral, then was it possible

For the first time in many hours, I wondered what had happened to Waldo.

Waldo had been late for his appointment, too, but for quite different reasons. The bleach had worked reasonably well on his tennis outfit, enough to mute shocking, hot pink to a pale, fleshy tone. However, the washing process had produced an unforeseen side effect.

The tennis outfit had shrunk. A lot Waldo managed to squeeze his bulk into it, but only with enormous effort. It was like a second skin. When he cuught a glimpse of himself in a full-length mirror, the combination of tight fit and fleshy tones produced the momentary illusion that he was staring at a stark naked Waldo Burmeister.

He shuddered, but there was no time to change. Not that he was sure he could; getting those clothes off

promised to be even harder than putting them on.

He glanced at a clock. He was late, late as he could
be. Uncle Pharnoh would kill him.

He grabbed socks and tennis shoes, picked up the little yellow card that Pharaoh Potter had left on the hall table giving directions how to reach the tournament, rushed barefoot out into the street, and hailed the first eigh that be rould find.

He held out the curd. "This address, fast as you can get there."

The cabby, Waldo insists, was struck dumb by his appearance. This, if true, does much to support Waldo's claim of looking something well beyond the mandane, since Luna City cabbies are not easily silenzed. However, the cab made excellent speed, and when Waldo was dropped off in front of a huge circular building he gave the driver a bit in. It was only as the taxit vanished from view that he realized that he had left his socks, tennis shoes, and wallet on the cab seat

No time to pursue them-Pharaoh Potter would be chomping at the bit. Anyway, Waldo could borrow shoes and socks before the match. He hurried into the building's entrance fover, which struck him as unusually somber, silent, and formal for a sports pavilion.

There was just one person to be seen, a wizened individual standing at the other side of the room and apparently guarding the players' entrance.

Waldo padded to him across cold marble riles. "I'm a

beginner at this sort of event," he said. The man, who according to Waldo had the air of someone wearing a previously owned body, stared at

Waldo's attire, 'I can see that, "So I wondered if there's a special warm-up area, for

people who don't do this sort of thing regularly." It was a natural enough question, but the man was more than unresponsive. He was eyeing Waldo with odd suspicion.

"No," he said. "Everybody has to go the same way Right in there, and follow the line. Slowly now. No rush-

ing about once you're inside." It was an odd injunction. How did you ever win a tennis match, if you didn't do a certain amount of rush-

ine about?

Waldo went through the door and found himself facing an altogether excessive abundance of flowering plants. There were floral arrangements everywhere. The tennis courts, he decided, must be on just the other side of all the shrubbery.

He pushed aside a great mass of greenery. He blundered through. As he emerged into subdued lighting and soft music, it crossed his mind for the first time that perhaps things were not quite what they seemed.

Where was the net, where was the court? Where were all the other players?

Not, he was fairly sure, anywhere near here. He was standing in the middle of a group of maybe twenty neople. But it was difficult to accept them as participants in a tennis tournament, since every man was clad in a customary suit of solemn black, while the women were all hatted and veiled. The whole line was moving slowly toward a dais, on which stood an elaborately carved casket. Waldo, willy-nilly, moved with them.

His present attire had made has flesh crawl, even in the privacy of his own bedroom. Now he realized what an overreaction that had been. All crawling of the flesh should have been saved for this moment, when every eye was on him and the moving line hore him irresistibly toward the dais. Soon he was approaching the coffin, wondering what to do next.

Waldo is given to exaggeration. It may well have been, as he said, an open-casket ceremony. It is not, I am sure. true that the corpse of Carlo Moolman rolled its eyes in horror at Waldo as he walked to stand by the coffin.

Carlo had been arranged to look his best for his final appearance. He was wearing a white shirt, a well-cut suit of subdued grey with a dark red pinstripe, and a maroon bow tie. Waldo stared down at those conservative

clothes, and he coveted them. He was already dreading the return journey home, penniless, on public transportation. Just give him ten minutes alone with that comse . . .

It was pure wishful thinking. Already the line was moving on, past the open casket. And it was then that Waldo became aware of something else. Everyone was staring, but they were not all looking at him the same way. Two men, standing on the other side of Carlo Moolman's open coffin, had in their eyes a strange and speculative gleam as he moved past them.

Big men. Hard-eved, tough-looking men. The sort of men who would cheerfully blow a large hole through Carlo Moolman, then attend his funeral in the hope of learning the whereabouts of the missing immortality serum.

Waldo hadn't listened to much of what Imre Munsen said, because the words seemed at the time to have little relevance to him. But he remembered this comment: "Of course, his enemics will attend-the people who killed him. They're as keen to get their hands on the serum as We are

It occurred to Waldo, with the force of revelation, that he and he alone knew exactly who those enemies were They still didn't have the serum, but it must be some where close by. Somewhere, probably, within this very funeral home.

Then came what Waldo described as his finest moment; or possibly, depending on your point of view, his act of supreme folly. Inadequately briefed-in both senses of the phrase-he decided that he must pursue the investigation

Once the viewing line was past the coffin, it lost all cohesion and focus. Some people headed straight out of the door, back toward the entrance fover. Others in the line broke into little groups, chatting together in low voices. Waldo waited for one of the rare moments when everyone did not seem to be staring at him. Then instead of going toward the exit he went on, through an unmarked door that led deeper into the funeral home He at once found himself in what might be termed the

business district. The walls were cement, the floor uncarpeted. Lights were unshaded and harsh, and no flowers were anywhere in sight. What Waldo did see were a number of metal tables, and a variety of most unpleasantlooking surgical Implements. Needles and stout thread on one of the tables, plus elaborate make-up kits, did nothing to make him feel more comfortable

He hurried on, to still another door. As he passed through it, he heard the door through which he had come in beginning to open. Heavy footsteps sounded at around in panic. It was another room, severe, chilly, and

the entrance Waldo pushed the door shut behind him and stared

dimly lit, with only a couple more doors and no cupboards or closets within which he might hide. The furnishings were just a half-dozen metal tables. Most of them bore suspicious-tooking long lumpy objects, each covered with a white sheet. The footsteps in the other room were louder. Waldo

could hear voices. He shuddered, climbed onto the one

unoccupied table, and pulled a white sheet over himself. It was a little too short. He was able to cover his head, but then his bare feet remained uncovered,

The door was opening
"Not here," said a gruff voice, just the sort of voice
Waldo expected a publics murdener to have. "It's a

bunch of stiffs "
"He must have come through here, though," That was
the other man. "Nowhere else he could have gone. You
head back and tell the hovs what's happening. I'll keep

going."

Heavy feet clumped, closer and closer. Waldo tried to stop his heart beating. If they pulled back the sheet, and

other door and hustled through.

At least this little room was userm, for a change. And there was more. All along one wall was a broad shelf, about three feet wide. On it stood a dozen blue boxes, each one labeled with the posation. HOLD POSP PECK-11P.

Below that, each one bore a person's name.

Personal possessions, they had to be. Things that
happened to be on a body when it was brought to the
funeral home. Waldo moved along the line of boxes.

Near the end be saw, to his excitement, the name that

he was looking for CARLO MOOLMAN.

The blue box held a miscellany of objects: articles of clothing, cleaned and pressed; shoes; watch, wallet, keys, checkbook, pens, coins, comb. And then, the jackpot: a

small phial, no bigger than Waldo's thumb.

Waldo picked it up. Three-quarters filled with a pale green liquid. This was the serum, it had to be. All he had to do now was find a way of setting out of the fu-

neral home in one piece, and delivering the phial to lime Mursen. Unfortunately, that could be a problem. The room be was in had only two doors. The one through which he had entered would not be safe to use. And the other

He gripped the phial tighter and ran back to the other door. And again he heard the sound of footsteps and voices. Many footsteps. Coming closer.

He was trapped. No matter how much he protested his innocence and insisted that he had just got lost inside the funeral home, they would not believe him. Not when he was carrying a phial of immortality serum. Waldo came to a desported edecision. He uncapped

the phial and raised it to his lips. It did not taste like an immortality serum—quite the reverse, as a matter of fact—but he gulped down every disgusting drop. Then he took the phial and tossed it into the consuming flames of the crematorium. The fatal evidence was gone, Now it would be up to

Imre Munsen and the United Space Federation to deter-

mine from an examination of Waldo just what the immortality serum contained. With luck, they would have a thousand years to do it.

The door was opening. Waldo crossed his arms and stood defiant, prepared if necessary to sell his life dearly. The two hard-eyed uglies entered. "There he ist" one of them exclaimed. "I told you he had to be here. Come

on in, chief, and take a look at him."

They stepped aside. Through the open door strode

Inne Munsen. "Oh, he's all right," he said. And then, to Waldo, "Hello, Mr. Burmeister. I didn't expect you'd be coming here, so the undercover boys didn't have your description.

"Moolman's k-k-killers!" The fluid that Waldo had drunk was puckering his mouth and throat, so that he could hardly talk.

could hardly falk.

"No sign of them, I'm afraid. And the funeral's over.
I'm beginning to agree with you, the whole thing was a
seem, just an attempt by Moolman to set money."

"No." Waldo pointed to his mouth, then to the crematorium. "The phial was here. I found it. I swallowed what was in it, and I throw the empty container in there."

"You found tt! Where, for heaven's sake?"
"In the blue box there. With Carlo Moolman's person-

al effects."

"But we went through all those, as soon as he was killed. We didn't find a thing. Can you describe what

you found?"
"Certainly." Waldo's stomach gave a premonitory rum-

full of green liquid. Tasted horrible."
"Oh, that." Imre Munsen gave a casual laugh. "Sorry,
Mr. Burmeister, but we already took a good look at that
when we were going through his things. We put it back.

It's certainly not an immortality serum."

"Then what is it?" A terrible thought struck Waldo. "Is
it noison?"

"No, no. It's medication. You see, when Carlo Moolman arrived here on the Moon, he developed an upset stomath. Change of food, hange of water, the usual thing, it gave him awful diarrhea. So he went to a doctor and got something for it. He took a dose every moming, and he had no more problem."

"A dose. How hig is a dose?"
"Three drops a day of the green fluid. Four, for a really bad case. Mr. Burmeister, are you feeling all right? You'm looking a bit pale."

Well, all that was nine days ago. There has still been no sign of Carlo Moodman's immortality serum. The Luna City rumor mill has shifted to another Elvis sighting, and this morning lime Munsen called to thank me and Waldo, and tell us that he is going to change the Carlo Moodman case description to simple murder.

The other good news is that Waldo's relatives have gone. The bad news is that Waldo himself has not, despite the employment of a whole arsenal of powerful purgatives.

He lives in hope. He says it could happen any day now. I am encouraging him to work at home. •

Sweet Are the Uses



David Galef

In Guijuelo, the sun beats down like thousands of tiny golden hammers, and the only relief in the town square is the cafe. Where the waiters are serving cool glasses of lemonade. Look, here comes that scruffy artist you saw trudging the fields yesterday, his easel strapped to his back along with the few rags of clothing he owns. He sits down in one of the café chairs. but no sooner has be seated himself than I send one of the waiters, the burly one named Carlos, to chase him away. "Señor would like a drink, eh?" he says, giving the chair a shove. "You haven't got two centavos to scrape to-

gether, have you?"
"I was hoping," mutters the artist, "you'd be able to grant me some credit. I am parched, absolutely dry. In order to paint. I need—"

"You have paint and canvas, isn't that enough?" Carlos

gives the chair a wicked twist. "So go paint, Leave the seats for paying customers?

"For the love of God, just a glass of water."

The artist's face is a study in misery, and Carlos is about to relent-but this will never do. I push him, he cushes the chair and the artist falls to the payement. barely saving his easel. He leaves cursing the establishment calling down a malediction on the dry, unrelenting town of Guituelo. Of course, this is exactly how he should feel. Half an hour later, he sets up his easel at the outskirts of town and begins the picture that will be his masterniece. In spare, flat strokes, he depicts the andity he feels in the fields and in the red dusty roads. In blazing vellow, the sun glowers upon a peasant pinched and hobbling, with the sullen face of Carlos. He works with the determination born of exhaustion and within an hour has finished what will come to be known to art collectors as the first in the Labriego series.

That was in 1884. Lucky art world, Lucky artist, If I badn't arranged for him to be denied a place at the cafe. he might never have painted that picture. Other times, I employ more permanent measures. For example, if Van Goob hadn't had Ménière's Syndrome, a disorder of the inner ear, he would never have produced those dizzving effects, those vertigo-inducing impastos.

Are you still interested? Do you wish to track me down? I am all but invisible. Even my strongest efforts may not take effect for years. Observe:

A little girl in a scraggly brown pinafore crosses the rectory yard, "Father, I don't think the people of Haworth

know."

like us "Hush now." The Reverend Patrick Bronte bends down to not his eldest daughter, just seven years old. His wife has been dead for four years-not entirely my doing, but she would have lasted longer if I hadn't stenned in. The Reverend now finds it no casy task to bring up the four remaining children, "Here, go amuse vourself with your brother and sisters."

The child screws up her face, "But we have nothing to amuse nurselves with"

The child's father frowns back at her, "Well, then, you'll have to pretend. We can't just up and leave, you

So little Emily Bronte makes up the fantasy world of Gondal with her siblings. Unable to move from Yorkshire, they play too long in the damp air of the rectory graveyard and contract tuberculosis. I was overgenerous with my store of mycobacteria in those days, but what a salutary effect it had on literature! The wasting disease gives the Brontës' novels that famous Gothic, melancholy air. True, they die young-Emily at thirty, Charlotte at thirty-nine-but what they lose in life they gain in posterity.

Shall we go back further? I am older than you think. Picture thirteenth-century France, its streets alive with intrigue and the sensual spirit of the Renaissance-but not for everyone 1 held off the consummation of Dante's love for Beatrice so that he would have a fit muse. Yet sometimes the opposite kind of good is required. Travel back over two thousand years to Mycenean civilization:

the creak of wooden chariot wheels over the dust of the uncient plains. Here passions run high over seeming trifles. A contest over a golden apple led to Paris abducting Helen from Menelaus, which caused the ten-year siege of Troy, which gave Homer something to sing about. I also struck Homer blind to make his sound all the more polegant

My influence over the arts is legendary, James Jowe had to endure a stifling life in Dublin and extreme noverty, which forced him into literary exile. Even his bad evesight had use as ocular metaphor in Uhsses. I killed Shakespeare's father and his son Hamnet so that he could properly compose Hamlet. I forced Dickens's father into debtor's prison. This led to young Charles toiling in a bottle factory so that his descriptions of the working poor would be authentic. I even burned down Ben Jonson's study so that he could write a noem about it. I ninch I prod. I poke. I stir up creative juices by refusing to let the contents settle

But my influence extends beyond the arts. Look at this wealthy politician with his violin-chin, delivering overblown speeches as he loses his campaign for the 1920 Vice Presidency. I delivered polic to Franklin Delano Roosevelt. Lerinnled him, to make him rise above adversity and become the leader who beloed the United States through the Depression, Back in 1882, the year of Roosevelt's birth. I was in Tuscumbia. Alabama, ministering to a darling two-year-old. Scarlet fever was the greatest sift I could have given to Helen Keller-who would ever have heard of her otherwise? Some two decades earlier. I had a train conductor pull young Thomas Edison's ears so hard that he was deafened, the better to invent in unintermented silence. There isn't a field in the world where I haven't lent a helping band, so to speak.

Lam called by different names in different ages. St Avenutine (and how do you think he got to be a saint?) said. "Sweet are the uses of adversity." He ought to know: Leave him a guilt-inducing hag of a mother who made him flee to Carthage-read the Confessions, "In order to be found, you must first be lost"; now there's a man who

understands my methods.

Look, here is another scene: a man and his family are content to live on the hillside, doing nothing but tending their flocks. They live peaceably and without any grand ambitions. Now strike down his children; send a murrain upon his cattle. Hobble him with debt and disease. year after year. Recognize Job? That man acquired fame through me. He even has his own book in the Bible.

Some call me Providence, or Provy for short, Some worship me: some call me unspeakable names and wish me out of existence. But I ahide. It is they who perish. I extend from the beginning of time to the end of all imagination. My footprints are all over history. Nietzsche, who wrote in a freezing cold room with his greatcoat

wrapped around him, called me the Necessary Evil. Of course, not everyone appreciates what I do. If I hadn't stunted Napoleon Bonaparte's growth, he would never have had such an inferiority complex, such a need to conquer others. These others have only a small role to play, I'm afraid. As in art, you may call them the audience—a captive audience. Vet no one was paying attention in 1877 when Alois Schickighuber, an unsuccessful customs officer from Braunau, changed his name to shed customs officer from Braunau, changed his made in a first soon Adolf sallow and change, just the ryare data for for a master race. I cramped his hands so that he would never be able to pursue his first Owe, art. Eventually I had him chapted in Landsberg prison, where he wrose a a people say for war of a better perc. set at history, as

Are you beginning to recognize me? No, don't run for the door, I am, after all, omnipresent. Also omniscient and omnipotent. Sit down again. That's better, In any event, the effect I have on you is indiscernible. A slight twinge in your knees, perhaps, leading you to stay indoors more and read. A humilation sexual coreumper. making you a confirmed celibate who channels his drive into scaling the world's highest mountains. The loss of a job, forcing you to reexamine your life. Believe me, accent me, take me into your heart. I work

for the greater dream of mankind, Haven't you heard the approving description, "This artist has suffered for his art? Or maybe religion is the path you wish to follow. Think how useful marrydom can be. Even those scientific-minded space explorers know my credo: "Ad astra ber astera."

So heed me. Try not to struggle. This won't hurt a bit —or only at first, anyway. Not in the grand scheme of thinos.

Try to look at the big picture.

Try to stop shaking.

Trust me.

**Trust me. **

About the Authors

Mark S. Geston will probably never be considered a prolific writer, but obviously that doesn't concern him. His family (three children) and his career (as a lawyer) have always come first-but when he does write something, it's almost always good enough to get published. His name showed up in bookstores last year on Mirror to the Slev his first novel in 16 years, and now he's in the limelight again with "Falconer," his first appearance in this magazine and only his second published short story in the last 18 years, "I'm pleased to be back," says Mark, and we're equally pleased to have him.

Fifteen-Love on the Dead Man's Chees' is the term published story in what Charles Sheffield calls his process. The state of the control of th

"Purists argue that this story makes ternis on the moon sound just like tennis on the Earth, which is implausible," notes Charles. "I reply by asking them if that is the only implausible feature of the story." In a writing career that spans a little more than 15 years, David Galef has been published mostly in mainstream periodicals. But he got his start in the genre of science fiction, and was an assistant editor at Galaxy for a short time. Two years ago he entimed to the genre with "four de France" in FESF, and now he's malcrate with "Sever det the Lies," in succession of the properties of the contains with "Sever det the Lies," in successing short piece that concludes on the top of this page.

"New Time" is piece of work that Phill Jennings describes as an experiment for him—"an experiment in writing a story that isn't check full of geofenow ideas, revealed at a of geofenow ideas, revealed at a Dance" for the opposite," (That story appeared in our January 1993 Issue, Phill goes on to say, "I've given myself the freedom not to write the same surieses. I'd be more of a comsume surieses. I'd be more of a comsume surieses.

John E. Stith has come back to his roots with his appearance here this month. It was in Fauntatic and Amazing that his first two fiction sales were published, in 1979 and 1980. He's gone on to build a reputation as a novelist, and that reputation should be enhanced when Manhattan Trunsfer comes out as a Too. That hardcover in May. "Going Up" is the

title of Chapter 1 of the book—not a short story in itself, but certainly an episode that gets the novel off to a slam-bang start.

By the time you see this magazine. Danith McPherson will have broken into the professional ranks with the publication of her story, "Roar at the Heart of the World," in the Full Spectrum 4 anthology. "Folds of Blue Silk" is one of four other stories she has sold to genre publications. She says this story arose from her desire to investigate savant syndrome (resulting in one of the most unusual protagonists we've ever seen), combined with what she calls "the world's increasing reliance on complex computer software"-leading her to the conclusion that "the human brain even a flawed one, still has advantages over a machine."

If "Thunder-Being," which concludes in this issue, has whetted your appetite, you have just a couple of months to wait for the publication of High Book of the publication of High Book of the Hi

New Time

Phillip C. Jennings

*Cigarette?" The chaplain spoke with his chair swiveled backwards to the room. He gazed out the window across the yard as if fascinated by the crackled red bricks of Block D. "I dop't smoke." Dan shot a

glance around the austere office.
The guest chair was the same make as the one in his cell. He moved toward it.

"Sit. Sit down." The chaplain's

skull was pale leathery parchment. He was bald enough to pass for a skinhead, but for the liverish signs of age. He held a folder in his lap. "You're a twotime loser, is that right?" The old men still hadn't

turned around. "I did a year in Wisconsin," Dan answered. A desk squared the distance between them, a bulwark of massive metal.

"You sound discouraged, You know what happens to multiple offenders under these new laws." "I was drunk. This time it

was the vodka. Dan was the silent type. He found it hard to verbalize to the back of someone's head, even when his future depended on it. "The first time I was mad at the world. I needed to change my attitude. I was youne."

The chaptain opened the folder and flipped a page. "Something about a cathedra? Don't

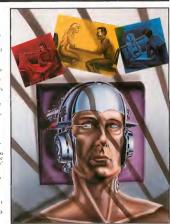


Illustration by Paul McCall

worry, I'm not Catholic. I'm what folks call a smoking Bartist."

Dan couldn't tell if he was joking. We lived in a police-occupied slum, except the cope didn't fus if we stuck it to each other. Every day I walked to work past a stone mansion behind St. Gregory's where the priess lived. 'Powry, chastly, obedience!' They didn't have to worry. They had everything, food and cleaning tadies and security. Twice a day the place set me on boil. That

was a long time ago."

"There's still heat in your voice. You don't think it was fair. You're a believer. Somewhere in your soul, you believe in justice."

"I'm different now," Dan insisted, denying the accusa-

"Contrête" Can I use that word?" It was a soft request, as if the chaplain was changing his tectics. Harsh, generale, harsh again. He swung around and raised his voice. Was there a chaplain in Wisconsin' PII tell you about him. The state pald his salary and then he went in playing good-cop-back-cop. He tried to separate himself from the Institution. Ged versus Cense."

the institution, even versus caesar.

The chaplain's eyes were red and baggy and sharply observant. Dan looked away. He didn't know the script, and he wanted badly to get out from under an impending sermon, It wasn't easy gunning for parole.

"Tim not like that," the chaptain continued. "For me, it's the contrition that's important, not where it's aimed. You're sorry to God, or to the state, or to the people at that bank. Oh, yes, I'm sure you are sorry. At a certain age, thinsis get through to you.

"But that's not good enough," old baldie went on.
"You forget, and start drinking. You forget, and start drinking. You forget, and start inskting that the world treat you fairly." The chaplain set Dan's open folder on his desk, and tapped it sharply to prove his point.

Dan's open folder on his desk, and tapped it sharply to prove his point.

Dan couldn't make himself answer. Finally—"I'd like to think . . . "

"You get one more chance," the chaplain interrupted.

"Does that scare you? Because I can teach you how to remember. It's a kind of therapy. They've had good luck with it in Austria."

"Drugs? Flectric shock?"

"What if it looks like something out of a Frankenstein movie?" the chapting assked. He runmagged in his irrit for a cigarette. "What if it involves wires, and a helmed Suppose we stray pou into a bed? But if is not what you think. We're not going to steal your personality, or mess with your froutal lobes, or musk we pyour hormones." He if up and keared back in his chair. "You'd be a volumperhidden and the stray of the control of the conprehidden are particle testiment."

Yeab. You bet! Dan's cellmate was creepy, one of those soft-spoken hairtrigger types. He didn't want to go back if he could buy another ten minutes, "Maybe you

could show me the setup."

It wasn't as bad as the chaplain described. The fine print was scurier—fine print always is. Nevertheless, at the end of those ten minutes Dan signed his name on three different sheets of paper. On the morning of his parole Dan Grover passed the bus stop in front of the gates, preferring a couple hours' walk to an indefinite wait. His trek put the prison's un-

walk to an indefinite wait. His trek put the prison's unsightly brick walls behind him. He cut through Meadows State Park, and reached what passed for suburbia in a town of sixty thousand.

He had his hundred dollars and the address of the local halfway house. He didn't hitchhike, and he didn't expect anyone to pick him up. No one did, not before he reached sidewalk country, and not afterward.

At the house he got a dorm bed and met a couple roommates. They passed him today's paper. The short Help Wanted column was doodled with circles. Times weren't good, but Dan's parole officer would expect him to make the trainer's at least two, interpriews a week

Dan grimaced. If he really wanted a job he'd have to lie about his prison record. He knew some French from his Cajum mother, enough to put together an alias. He'd be Dan Grusior, a Quebecois who wanted to get away from "the troubles," whatever they were. He added features to his persona as he lay in bed that niebt

tures to his persona as he lay in bed that night. Next day he took his new self to Drive-Thru Dry Cleaning, and gave them the story. He was heartsunken, the wrong sex in a place where even the boss was a woman, but he pertended otherwise. Selma gave him

the standard answer: "We'll call the end of next week."

Selma rang the house that Thursday. "Can you drive?"
she asked hopefully. "Do you have a car?"

"Yeah," Dan lied.

1.

"I'd thought to hire someone for batching and bagging, but we could do business with the institutions old folks' homes and such—if we pick up and deliver. You interested in that?"

"Yeah, Sure," Dan tried to prove that his brain was awake, "Will I need anything beyond my normal driver's license?" In view of his past drinking Dan's license had

been suspended, but the parole officer might give him a permit. Selma wouldn't ask to see anything. If she did, Dan planned on "forgetting" his wallet. How did the Corrections Department expect ex-cons to go straight unless they lied about their handicaps?

Setma gave him assurances and asked him to show up Monday morning, After the call Dan looked around the halfway house. How could be get a car'l file was a plot, these roomantes were fellow conspirators. He saked, One of them rang a pay named Carl. 'He works for a claims office. They got a totaled 83 Honds waiting for the junkmin. The accelent took out the driver's skelheadilghs and facked the allomment, but what the backlighs and facked the allomment, but what the

I bargained him down to seventy-five. No papers. Cop stops you for bad lights, you better talk fast."

On Monday Dan endured Selma's comments about the Honda. He started the day with in-house work. Doorby handled the front desk and greeted the customers. She was a decade past Dan's interests, Just to be fair, Dan was ten or filteen years too old for Angle, a skinny gift with a vixen smile. Angle handled the chemicals and the presses, and was always oldwrine with sweet. Dorothy mistrusted Dan. Angie took his side and taught him how to work the equipment. "You got a

aught him how to work the equipment. "You got a boyfriend" he asked.
"Yeah." Her answer was unenthusastic. He sor't treating you right, Dan thought, seeing how her smille winked off, It came on again when he changed the subject.

Selma called him over. "Go to that convent on Ninth Avenue north of the post office. Park behind in the alley. There'll be someone waiting with a binload."

key. There'll be someone waiting with a binload." Dan almost made it. The cop in the cross lane stopped him for not signaling his left turn—and how was he supposed to do that? He asked to see Dan's license.

Dan's eyes opened. The chaptain frowned down as he lay strapped on the table, 'Well, it could have been worse,' he said. 'You do give yourself liberties. You'll have to learn not to snare yourself in lies.'

"You aren't going to vote down my parole" Danspiect aminosity. He locked around as best he could under the confinement of his immobile helmer. The room was windowless, so this cause table, cupboard, sick, and the tousal medical docotals belted to the walls. The tous held been in was memories, an imperfect space of false froms and textures, but five minutes ago he'd bought it completely. Part of his brain had been turned off, the skeptical part that also failed him during his dremm; "I kept mostly deen," Dan insisted.

"You'll get cleaner. A few more treatments, and when the day finally comes you'll know how to live inside the niles."

2.

On the morning of his parole, Dan Grover walked past the bus stop. His defai we hike put the present's red brick, walls behind him, out of sight but never out of mind. No one preked him up this time either. He knew the route now: Witter Avenue and then the 12th Street bridge.

At the halfway house he got his former bed and met his former roommates, who didn't seem to know who he was. They passed him today's paper. It was a repent of last time around, but he pretended interest anyhow.

Next morning he woke and read his notes to himself. Remember there uses a last time. Remember this is a dream. Chapitain-reality was fasting, a world of muddle and gray colors. But not ecided it was paramed to this that believe could make him forget it when he didn't want to. No, he was a mun of two lives, free to fist one of them. A man with a program. He called Selma at Diver-Thus Dry Clenning. "My rums is bin Grover. I dike to interview, but I have to tell you l'in on parole and my drivers licence is assupended. I don't have a cri-

and my driver's license is suspended. I don't have a cut.

It was quite a load to dump on the woman. She took time before responding. "Well, I really needed someone who could pick up and make deliveries."

"Yeah. I understand." Dan almost hung up, but it couldn't hurt much more to hear her say no. "I guess I can't find a place for you. Maybe when the

car situation sorts itself out."
"Yeah." Dan set down the phone. Later that day he

took a walk. Road men were working on Merrimack Boulevard. The cement truck read "Lakeland Durf-Mix." He came up and asked: "Is there work at Lakeland?" "If you pass the physical." The driver turned to face

him. "Got any back problems?"
"Nope. Never."
"Call the number. It's in the book. We got jobs to do

in a hurry before the season closes."

Cement work was physical, and Dan wasn't as young as he'd been. A week went by and then some, before he muscled up to where he could think of anything but

work and sleep. He needed a payday blast, a friday night at O'Hara's Bar, but that option was ruled out. If he wanted to make real parole, he'd have to avoid booze, bunks, and the Roman Catholic hierarchy. He took a walk. Paxton Park was some trees rimning

a duck pond. Downstown was two blocks further on.
Drive-Thu Dry Cleaning was still open. Dan saw Dorothy
and Angie inside. He kept going. On his way back they
were closing up. When Angie went out to her car he
called to her: "Hill Remember me?"

Of course she didn't. "You'll think I'm crazy, but I know what you do all day, and you're the one who taught me." He went into details while she stood nervously, squinting into the setting sun. "I'd like to do something for you, You were kind to me. You want dinner at Perkins"

"I—I don't remember . . ."
"Well, sure you don't," Dan said, agreeably crestfallen.
"And then there's your boyfriend."

"And then there's your boytriend."
Angie looked suspicious. "Did Harris set you up? You know where he is?" Before Dan could show his confusion, she nodded. "Olay. Let's go."

The Perkins was half a block away. They slid into a booth. Dan pressed her. "Harris' That's his name?" "God, I hope he stays scared. I hope he doesn't come back." Angie blusted these words and then looked

scared herself. "You're not his buddy?"

"I'd just as soon he didn't exist. You weren't happy

with him."
"We rented this place," she answered. The words started pouring out. "We'd get mail for the people who hered there before Harris took it personally, it was of-fensive to him. He started tearing up their letters, and if they got pink mail offers, he'd sign for anything and forge their signatures. We'd get stuff—loss of CD's from Columbia Records, and it cheered him to think those

other assholes would have to hassle the bills."
She shrugged weakly and fumbled with the menu. 'I
can't yell at men. I'm the type they walk over, I just find to watch. Finally the postal impectors came knocking,
because this signature hed forged was the name of a
time-eyear-old kid. That's when the thing was the mane of a
time-eyear-old kid. That's when the that of he took icm minunes to pack. He offered to marry me. He'd make the artrangements from Derwer."

"Jesus. So you couldn't testify against him?" Dan didn't remember the pernellies for postal fraud, but Harris's panic seemed excessive. He sounded like a seum'tag not just a cheat, but cowardly too. "You should find yoused a better class of men." "You?"

"You?"

Dan shook his head, "I'm trying, I work at Lakeland, I asked Selma for a job, but she needs someone who can drive and I don't have a license."

Angie looked at him like he was a freak. "How do

you get around?"

"It's not convenient," Dan agreed. He mustered himself, "I used to be like Harris, but they caught me and put me away. The place I went to—you get worse or better. If you get worse, you're parked for good. I don't want to be a three-time loser, I'm taking the other option."

Dan hadn't known he could blush anymore. He spoke through his embarassment. "You don't deserve a recycled punk, but there's nobody I can talk to. If it's okay I won't ask more than to keep us at that level, 'You're my Bittle bright spot and I don't want you to vanish."

It was Angie's turn to blush. 'You don't think you're coming on strong, but you are.' She fussed at her uniform and gathered herself in a way that portended bad news. Just then the waitress came over.

She took their orders and left. That minute was all Angie needed to change her mind. "I'd like someone to talk to too," she said. She laughed, "Harris took the car. If we go places, they'll have to be around here."

"Fine." Dan smiled. The thing now was to "talk." He took inventory of the possible tooks, "How's Selma to

work for?"

Angle had no strong feelings. She asked Dan's opin-

and of whether as should go be the State Codege and on whether as should go be the Usate Codege and on whether as should go be the Usate Codege and the Code

and every time I come around."
"Hey!" Dan stood up. "Hey, he's got kids with him."
"Stay out of this. This is between me and Floyd," the

bully answered.
"I doubt he's a willing partner," Dan said. "Don't mess
with a guy when his kids are warching."

"Fuck it. Fuck you!" The young man took a swing. Dan gave him a rabbit punch in the belly.

He opened his eyes to the chaplain, "Oh, God. What'd I do? The fight? Man, I was on the right side?" The chaplain nodded, "You've certainly improved."

There was no rush to judgment in his features, or in the way he chewed his lip. "It's a hard call. After men grow up, they go decades between lights. That's the Dan Grover we want to release to the world. You've got justice on your side, but the statistics are against you. If I recommend you for parole, people will challenge me on this."

He paced. *Progress, though. Real progress. Okay, let's give it a shot."

"Should I have just let him hit me?" Dan persisted.

"Should I have stayed in my booth?"

The chaplain held up his hand, "Let it go. You've got

your future, and that's what we're here for."

Someone twiddled a knob, and took Dan's documents away. Or maybe he was getting used to the beighter colors of 'dream-town,' but freedom was always brighter other prices. If this was read parcie, nonetheces it started like those other times, and that's what finally decided it. But the color of the color

Nah, he couldn't do that. As he walked he tried to hitch a ride. Nobody picked him up. Dan remembered when the world had been a nicer place, and shook his head. Keep things straight. Two worlds, and this one wasn't necessarily a comment on the other.

wast recessary a comment on the other.

The halfway house was the same, Dan's spirits sank until he got a look at the paper. Was it because he'd complained the last time that the want ads were different?

The residents in the halfway house were different too.

He found Drive-Thru Dry Cleaning in the phone book, and Lakeland Duri-Mix. By nine next morning he had as much of a job as a telephone could give him: "You need source now that the city's widening Merrimack Boulevard, and Bill's in the hospital with that back injury." Yesh. "The guy should have been impressed by all the stuff Dan know. "Come on down and we'll check

you out."
"Hank can give me a ride in the morning. I don't

have a car. Is that okay?"

It was if only Dan could zoom into Angic's heart as quickly, but when he called her apartment, a man answered. "Harris? You wouldn't know anything about some missing mail?" Dan hung up before the skeazo could answer. Her boyfriend hadn't skipped town yet.

Angic would have to wait a week or two.

Dan went to work, and bided his time. So this was living by the rules! It felt fike a game. There ought to be some way he could win—win everything without wak-

ing up inside prison again.

Somewhere a guy named Floyd would soon present him with a chance to play hero. If he did that right, and

fam with a chance to play hero. If he did that right, and Floyd was rich . . . Hank roused Dan out of this recurrent famasy by offering a fifty-buck bet on the World Series one night dur-

ing the drive home. "Detroit's gonna take it in five. Six at the most."
"Pittsburgh in four," Dan blurted, and went tense. Gambling was a non-Baptist activity, surely more so when he knew the outcome. He expected to wake out of this dream almost instantly, but the chaptain didn't

pull the plug. Old baldie didn't even pull the plug when Hank reached to shake hands on the deal. What lesson was Dan supposed to learn from this? Back at the house Dan made a long distance call to Las Vegas. He went through the paper's financial page. He could memorize a few stocks and numbers, and next

time around . . .

He didn't want there to be a next time around. Any-how this was too much data, column after column in

26

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tiny type, and a plus .1 for Uic might mean a lot more than 3.5 for Rbil. The smart way would be to pay a broker to tell him what stocks were climbing.

ker to tell him what stocks were climbing.

A town this size didn't have more than three or four brokers. One was named Floyd Bremerhaven. Nice, but

Dan was moving too fast. Everything had to wait.

Dan slaved for his first paycheck all over again, and
studied the paper. He memorized the news and asked
the house director about local issues. After the first two
World Serkes games, Dan began nosing out used cars.
His parole officer decided to help him get his nermit.

Pittsburgh won number three on the road, and then number four. How quickly did the folks in Nevada send out winnings? It was Friday, the day for Dan to encounter Angle and reprise everything, and begin to win her heart. The spontaneity was gone, but the caring wasn't. That's what counted, or so Dan honed.

What was it about here he woordered as he trailed he into Perkins. She was so young he almost couldn't call her a woman. Her body was more safe than sexy, Any man could dominate her physically, but men woolden't fight over her. Was it that Was it her winherable penson shifty Dam saked the hostess for another booth, one by the windows, but he needed; have be detered changing many count man came up to harase him.

The proof of the configuration of the configuration

Their romance progressed. The Vegas check came next week. Angie helped Dan hunt for a car. They settled on an old Bronco II and celebrated with a right of Chinese food, hot kisses, and clumsy front-seat sex.

Data survived this non-Bapist episode, dangeed to work north morning, and woke up to feelings of pity and graittude. Was this love, or a trickle of helmst-current into his brain? Good the even know for sure! Brow could be made life better for the two of them? Data had hasdly any morecy left to play the socks market. He called Floyd anyphon— —the road work on Merritanck was choes, and the pigged to the hallow) bosce during list hardro break. How are to the hallow bosce during list hardro break. How are "Depends," Hoyd answered over the phone. "As a rule 1 prefer sainly."

"Suppose I had a time machine and some money, and went back to a couple weeks ago—"

"You'd do better playing the horses," Floyd said.
"Time machine," huh? I've heard other lines. Can you come out here? I'm in Colorguard Tower on Second Avenue, out west past the new WalMart."

"I work all day." Dun pondered. "How about the downtown Perkins Pancake House? Around suppertime?" "The things I do," Floyd complained. "Six o'clock.

Look for an overweight Robin Williams in a maroon tie." Dan spent the rest of the day mystified by Floyd's willingness to do business. The guy breezed into Perkins without his kids. He shook Dan's hand and asked the waltress for "the usual." "So, let's start," he said to Dan. "Have you ever played Leisure Statt Larry?"

Dan shook his head

"Computer games. That's a better metaphor than time machines," Flord went on. "There's another game I like. Civilization. Just before the other guy's chantot attacks you are pailants, you save the game. If you lose, quit and restart. Eventuelly you get Itacky. Keep it up for six thousand years and you're the most outrageously lucky player of all time. If's cheating, but who wouldn't cheat?"

Dan sipped his water, and nodded. "I like being lucky." Floyd bent closer. "Okay. Two big problems. One, you can't save this game. You start at the beginning each time. Am I right?"

"Right."

"Second, you've got a coach who likes to play God. How do I know? I've been through this before. Folks like you call stockbockers. It's an ego problem for me. I'm a computer-game figment, a piece of cardboard with an attitude, but I'm real to me, and I like making money." Floyd leaned back. "I bet you don't know how I do it." "There's other people like me?" Dan asked.

Why not? If this is all some fake reality, it's gotta be demand expensive. There's a bunch of supercomputers involved, and millions of staff-hours worth of programming. Nobody's going to run all that for one guy at a time." Flood outsided his head. "Who's your coch?"

time. "Hoyd quirked his head. "Who's your coach?"
"The chaplain out at Meadows Prison," Dan sale."
"You ever think of driving there to visit him?" Floyd asked. "He's the one guy you know who's exactly like.

you. He's in your simulation, and in reality too,"

Dan grunted. It was a new idea and not one he wanted to pursue right now, "You're a runamok character in
this same, aren't you?"

"I'm very nice to myself," Hoyd answeed, 'I work for feltens like you. Next time around you'll have the data I give you, and you'll come to me to make the investments. I'll get my commission on the deal, plus lean interest, plus I'll put my own money or the same stocks, Sure, it doesn't help div me, but I'll m Hoyd number stay-two, Hoyd sixty-one did ne the same favor, I'm already naking in my share,

"Maybe you're not a game character. Maybe you're something else." You're the Devil, Dan thought to himself. You're a bug in the system. You're riding one of those infinite loops that programmers hate so much.

Hoyd shugged. "Write these down, Nikeo Optics, McNurty-Williamson. Saber Communications. They're the best I can do for you." He looked around, "No guarantees, though. Sometimes a coach requests changes. They can twiddle the database."

Dan nodded. "Like the Help Wanted ads. Blame my chaplain, not you? Because if I blamed you, I'd be an earny who'll come back time after time to make your life miserable."

"Jesus!" Floyd patted his forchead with his napkin and looked around. "When they change the outcomes, don't you think I get screwed Ioo?"

Dan ventured a reassuring smile, "Suppose I've got a eirlfriend. Do I spend a lot of effort loving a computer construct? Or is there some way I can tell if she's real?

Floyd shrugged again, 'Real people are loose cannons. They call stockbrokers and talk about time machines. They've after something in a desperate hurry, and they

don't know what She's not real, then " Dan primaced, "Someday I'll make genuine parole and lose her forever." That thought triggered a cascade of speculations and indictments. The chaplain said Dan was taking some kind of

Austrian-Frankenstein cure, but what if he ended up liking this simulation better than true freedom? After supper Dan put a quarter in the Perkins pay phone and called the information number at the state prison. He got a recording and left a message, "Fuck it." he sold to himself, and crossed the street to Comstock bouges. He bought some yorks and coke, went back to the Bronco, and began mixing and singing.

He woke up. "I want to talk to you," he told the chapbrin. "What kind of world are you running here?"

"I want you to win," the chaplain said as he loomed over Dan's table. 'That's what you don't understand. That's what most folks can't believe. The system doesn't lose when you win, not if you play by its rules. We're all

better for your victories." But I shouldn't have been able to gamble on Pittsburgh like that." Dan couldn't bring himself to ask about Angle. She was private to him, except that couldn't be true

The chantain siebed, "You're playing the basic simulation at its easiest. Once you master this environment, we'll oo to a harder setting. When you win under the most difficult parameters, you'll be set. You'll go out of

this prison and conquer the world," "How long will that take? How many fake paroles, over and over again?" Dan asked.

"You've got the time," the chaplain answered. "Five shots a week for three more months. You can spend

your hours in your cell, or here."

Dan closed his eyes. Angie. Angie over and over sosin. Someday she'd be gone, an unreal collection of hits and bytes, but someday too he might be ready for that He didn't have to worry about it now. The whole thing was bent, like masturbation compared to real sex. but damned if it didn't feel real, and he wanted more "I'm your man. I just couldn't get the rules straight. It was bugging me. I wish you had a user manual,"

"Mine's the Bible. It works better the harder things get, but don't worry. You're doing fine," the chaplain said. "I wanted to talk to you. That's why I broke out of

the game. Can you put me back where I was?" Dan asked, "Do I have to start all over again?" The chaptain nodded and looked at his watch. "To-

morrow."

On Dan's next-day parole he hurried through a familiar landscape and made his ritual phone calls. He was

broke, but a cooperative Floyd Bremerhaven lent him money to put on Saher Communications.

Would be make his killing? This Frankenstein dreamlife was full of peripheral details, and Dan tried to enjoy them. Why worry if Pittsburgh would win the Series this time? Why worry about Angie? If she spurned him he'd just start over again, but in the meantime fall was coming into glory

When the Lakeland crew told jokes, he memorized them to cheer up the losers at the halfway house. He watched some college kids play volleyball, and not invited into the game. He viewed a TV series about conviets settline Australia two hundred years ago. All this happened during Old Time, but by shifting his attention away from his goals he could make it seem new, and test the capacities of the town's supercomputer God.

Finally he reached New Time. He had a girlfriend, and a Bronco, and a couple thousand dollars in stock money. Was this victory or just the beginning? Dan was still at the bottom rung of the town's social ladder. He went to State College with Angle to help her register for classes. and pendered the possibilities of further education. Comnuter science? He signed for an evening course. The town had a barbershop choir, and he tried for baritone.

The chantain woke him up, "We're going to change the parameters," he said, "We want to make it a little harder, but the rewards will be worth it. Congratulations. I'm going to be proud of you,"

Will the people be the same?" Dan asked anxiously. "Worried about Angie?" The chantain smiled, "We'll make her livelier, more unpredictable, but ninety-five

percent the same. Dan nerved himself, "I'm thinking that somewhere this town really exists. You guys and your computersyou took a snapshot for your database, but it has to exist or it couldn't seem like a real place. It's real, it's interconnected, and you can't make lots of radical changes because everything would fall apart."

'Hm. I see why you'd want to believe that. I guess you could say-Excuse me," the chaplain caught himself, like a scientist unwilling to bare the truth to the subject of his experiments. "I can't smoke in here. See you tomorrow."

108.

Dan had seventeen dollars in his pocket and an empty pint of yorka at his side when he gunned his brotherin-law's pickup into the Liberty National Bank's Magic Money machine eighteen months ago. On the morning of his parole the state was kind enough to give his monev back, plus the two hundred he'd earned working in the prison laundry. The gates opened and Dan faced an asphalt road. It crossed a pair of train tracks. Some distance away lay a divided highway.

No bus stop, and no Meadows State Park. This was the real thing. Dan's own eyes controlled the slightly myonic focus. He could smell dirt, and pines, and dieselhe'd never been able to smell before. There was a town

all right, ten miles north of here, but the city was an hour's drive south.

Dan started walking. After a while someone picked him up and took him to the Welsh Lake freeway oasis. Then a trucker dropped him off where he could call his sister and ask her to fetch him home.

They'd visited Dan once since his incarceration. When she drove up he renewed his apologies. "Sorry about the truck."

"Are we going to have to hide the booze?" Sis asked. She was fat, and her daughter too-their flesh trenched where the straps and belts of their too-tight clothes cut them. Dan liked them despite their grudges, but he could hardly believe they were the same sex as Angle, "Just wait and see," he promised. "Got any atlases at home? Something with city maps in it?

"Nah." She looked at him oddly, and Dan remembered: he was the silent type. That's how his folks thought of him, and it would be all too easy to fall into those habits

Sis and her husband were gratified the next few days when Dan stayed sober, went through the want ads, and started calling for work. So was Dan's parole officer, Dan hiked ten blocks to Liberty National, introduced himself, and apologized about the Magic Money machine to the highest ranking veep be could find, but they didn't offer him a job. No storybook endings in this reality

Pittsburgh died in the playoffs and never went to the Series. Winter began early with a freak snowfall. Dan went door-to-door with his brother-in-law's shovel. He gave Sis his earnings to pay room and board, and spent evenings in the reference room of the local branch library, avoiding the speculative look in his teenage niece's eyes.

Dan found dream-town in a book of road maps: Pomoniac, Nebraska had the same streets spanning the same river. He went to his parole officer to ask for some arrangement so he could move out of state, and discovered that she'd scrounged him a job as a groundskeeperjanitor for a rental condo. It was a forty-minute commute from where he lived, but there were two solutions to that problem. Dan opted for both of them, Again he got certified for a temporary driver's permit. A car would come in time, but meanwhile one of the condo units was his to live in while he repaired the last tenant's damage.

Dan called for the Pomoniac phone book. It arrived three weeks later. Floyd was in it, and Angie, and Drive-Thru Dry Cleaning, Meadows State Park was Natural Prairie State Park, and there was no prison.

Logic. If this was reality and stockbroker Flowd was right about the economics of simulation-parole, there'd he ex-cons like himself veterans of the same decam lose of them hung up on Pomoniac for one reason or anothcr. The poor place would be deluged. Was that good, or bad? A horde of reformed men and women with programs and ambitions, scheming to succeed in a familiar setting, stage by stage and step by step. Think of the pressure! Poor sleepy Pomoniac!

Dan had lots of questions. Was this reality? As hest he

remembered these last months, every time he'd bought the idea that he'd made parole it was because the chaplain had upgraded the simulation, but how could any simulation have his sister in it? And not just one middling town, but a city of three hundred thousand! No. Dan was being tricked into doubt. The obvious way to find out if this was the computer's best dream was to break the rules . . . at the risk of getting arrested. Uncertainty had always kept him straight before. Straight and sober. Life was not good to three-time losers.

It was the indecisiveness that got to him, selling him the premise that it would be wonderful to know for sure. Reality was his birthright. Dan worked through to spring and bought a used car he could barely afford to insure. The parole officer arranged an exchange with Nebraska so he could move there against her advice. She was a good woman, but as counsellor and client they were so far from a match that Dan doubted she ever had fancies about him. Nobody tempted his heart away from Angie-this young woman he'd never actually mer!

Dan's drive cut through Iowa, hundreds of miles of rolling cornfields. How could a supercomputer contain this universe? He'd get to Pomoniac and see all those familiar faces from his fake dreams: It was like trying to return to a womb that could no longer contain him.

What was the hurry? Dan parked at the first rest story west of Omaha. He peed, and walked circles around the building, Okay, he said to himself, Okay, Okay, Suppose this reality awas fake. He'd still be better off knowing. Floyd could tell him. Floyd the game-player. Floyd the winner, with no soul beyond the computer itself.

It was spring, and meadowlarks sang in the fields. Better off knowing all this was fake? Dan wondered how much heart would go out of him if he learned these last six months were encapsuled inside a prison room. Six months of joyless fall and winter, focused on a goal now just sixty miles away! How many times could be get used to ever more advanced levels of delusion? How many times could love draw him on, before he learned that nobody was worth that much obsession? He'd been jumping through hoops, and calling it freedom because he'd chosen the hoops for himself, but he'd be a slave until he stopped playing other people's games and invented his own. Birds again. Red-wing blackbirds down past that

slough. They had absolutely no role to play except as decor, if life had all these goals. You got no points for smelling the flowers. The rest-stop fence was a perfunctory barrier. Dan clambered over it, and began to walk north into his shadow, his back to the sun, stampeding a few grasshoppers out of these wild weeds. North to nowhere. North off the supercomputer's map. Was it possible? He meant to keep on until he found out. Maybe he was tired of purposes. Maybe he was a failure.

Maybe he was free at last. The only answer that could come from outside himself was the wrong one, and he'd made his decision. He preferred this twittering silence.

He kept walking. +

Going Up

From the author's forthcoming novel. "Manhattan Transfer"

John E. Stith

Manhattan never sleeps, It doesn't even blink. By three in the morning, it was as close to lethargy as it gets, but that was still busier than a nursery full of hyperactive kids with megadoses of sugar and caffeine As something quite out of

the ordinary began. Manhattan lay awake in the dark.

Slightly past the orbit of Saturn. over forty degrees above the plane of the ecliptic, ionized particles of the solar wind encountered a disruption where none had existed before. Space twisted. An artificial

rotating singulanty deformed the fabric of space, bending it in on itself until a black hole formed. Charged particles that would normally have sped directly through the region instead began to move in arcs. most of which ended at the singularity. They accelerated as their paths curved tighter toward the gravitational lens, speeding faster and faster as



they approached, and, during their final nanoseconds of existence outside the event horizon, spewing X-rays like

tiny distress calls.

The event horizon bloomed to a diameter of several hundred kilometes before it subliked. While the solar wind financied into the region, an enomous black startwist member from inside the event horizon. The statistical amount are black as the region of space it slid out of, absorbed radiation across the entire spectrum as it spam solved industrial across the entire spectrum as it spam over the properties of the properties o

The large squat disk-shaped ship sported cotagonal under than iccutal endplates. The disk was over 100 kilometers in diameter, as big as a small moon flatened less in the dism stright. The black skip then began to pivot into the solar wind. It kept adjusting its ocientation until one cotagonal surface pointed generally at the distant vellow Gaype star. The precise alignment was at the controval skip began to accelerate a smoothly toward form

The other selection of the compact bases one in patch and website as the pilled patch of the collection with a minimum of the pilled patch of the control of the true and the chapper rose a matter off the control of the cogo of Munitarian. The six passengers were all secured, and the sounds in the pilled is hostighteness were positive, on the control of the letter of the control, he let the chopper continue its rise. Isolated in the control of the control per turn dowly, and he control the space core in the building tops. When the chopper faced the East River and JPK international beyond, the pilled passed on the cycle stid and the chapper faced spilling forward, still

The pilot enjoyed the runs between Manhattan and JFK, particularly at times like now—the moming rush hour. This was one of the few jobs in flying where you could 'drive' over the roads below in Queens. He took a lot of pleasure in passing slow-moving traffic on the Long Island Expressory, BQE, and Van Wyck, crusing right over the stalls and backed-up sections, ignoring pileups and emeracheme tracks.

He reached cruising height just before the East River. Below was the Oueenshoro Bridge, doing its best to iam

more people into Manhattan.

A studien shadow was the first indication of trouble. Reflexes took over and he lost a little altitude just in case. If the passengers complained, he couldn't tell, because the headphones and the rotor roar would block anything up to a scream.

The helicopter pilot had just convinced himself there was no problem when a faint pencil of red light cut the giriny sky vertically in front of the windshell bubble. He jammed the stick and tried to veer away, but he had no time. The whine of the rotors suckenly changed pitch as the rotor blades hit the shaff of laser light. The choncer

became a machine gun, firing severed pieces of rotor off to his left. In milliseconds, the sheing light had whitted every rotor down to half its original length, and then the chopper itself hit the beam. A band saw moving at the speed of light, the laser sliced the chopper right down the middle. The engine overhead exploded as the casing

surrounding the whirling components split into pieces. Shapped from the exploding engine perforated the bodies of the pilot and passengers as the two halves of the chopper began their plunge to the East River. The pilot hadn't even had time to utter the one word traditionally heard as black-box recordings terminate.

Matt Shechan had heard little more than the roar of the A-train subway since it speel away from the Jay Street station in Brooklyn and hurched under the East River. He'd taken a small detour through Brooklyn after landing at JFK and taking the subway through Queens.

As he stred out the wholow into the dark, he saw neathing except an occasional utility lamp as the car necked on its rails. He was aware of snippets of conversation, but paid no attention. The merining rash hour crowd was so clease, Must held his small flight bug in the same hand that gripped the overhead but. The woman in front of him faced the door, pretending as he did that it was confortable to be as close as lovens. The mass of bodies credible to be as close as lovens. The mass of bodies the car when the contract of the contract of the cars, the office of the contract of the contract of the cars of the profitors.

The woman suddenly turned and looked around angrifts, the scanned nearby faces, returning to Matt's. Her eyes were green. Her skin looked tanned, but the smooth texture said her complexion came from parents rather than the sun. She said, "I really don't appreciate that." Matt get a glimpse of even white teeth

It took shart a moment to realize someone in the crowdmust have pinched or touched her in a way even more intimate than the close contact necessitated. He almost said, "You sound like my wife," but instead he hunched up one shoulder and extricated his free arm from the mass of bodies. He held his hand pain out. "I didn't complete the properties of the properties of the contact of the properties of the properties of the concept here." He gazes fished down to where he shoulder southed his close.

The woman, whose hair was shiny black, held his gaze a moment before she said, "I'm sorry," and started scan-

ning other faces again.

Me too, he thought as the subway continued to jostle
the riders, a giant hand rocking the crib too energeticalby. Mart felt tired. He hadn't slept well on the flight from
Mexico Gity to IFK. and wished he had more energy for

his stop in Manhattan.

He let his eyellids droop closed, then popped them open a second later, when the car lurched violently. The overhead light went out. In the same instant, a shower of sparks splattered from somewhere behind him, and

the screaming and shouting started.

A numbling series of loud explosions sounded, so many of them separated by so little time that the noise was more a high-speed rat-a-tat tat than distinct booms. Matt felt

his body pushed forward into the woman ahead of him as emergency brakes decelerated the car, and he felt a sudden breeze hehind him. The floor of the car lurched again, and by the time the car jerked to a stop, the floor seemed to tit toward the rear.

As the screams and shouts finally gave way to angry and panicked loud questions like "What the hell's going on?" directed to no one in particular, the car jerked several times and came to a halt in blackness. A woman's voice split the dark, yelling, "Get your goddamn hand off me!"

The crobes from belind him had changed texture and lengthened, as few po longer came from an enclosed car. People began speculing out, and saddenly a man cried, "Beyl.". "His voice trailed of loud an impact forced more air out of his lungs. A few matches and eigarcte lighters piecet the darkness. As first all they revaled were the forward hard of the cir and a confused frame of people. And but melve in a breath as he realted what dufin's show—the real had of the circumstances of the confused from the confused from the confused frame of the confused frame of the circumstances."

direction: "Oh, my God: "Harry, Harry, What happensees
As he got closer, Matt realized that the hack half of the
car was gone. He swallowed hard, People: consecul as its
car was gone. He swallowed hard, People: consecul as its
time to be the second of the second of the second
the bed to be beind the car. A man who appearently was
the one who had just failten got to his feet on the floor of
the tunnel and looked up in suppresse. Matt reached the
servered edge of the car, and the temperature from packed
bedies dropped noticeably. He took a deep breath and

titled to control his fear.

The subwoys or had been sheared in half. The metal edges of the floor, walls, and ceiting still glowed a hell to the property of the floor walls, and ceiting still glowed a hell on consecutive design of a hole created by ma amore piercing insistie sunsaling through a tank wall. That bold metal control is sufficient to the subwidge of the subwidge still wall to the property of the subwidge still the

In the turnel behind the car, Mait could at first see only fair reflections from the rules. It to do a firsy perhight from his long. With help from the leght, he jumped to the track hele, careful to stay clear of the extra rail on the could sake, even though the power was almost certainly off. A coughe of meters from the severed celle of the car he found a man lying on the tracks, mounting. Careful not to make hody centact. Multi grabile et a meter due for all make hody centact. Multi grabile et a meter due for all his hour prounded, bur finally it began to slow as the initial advention and faith of the country of the careful developine may faith of the country of the advention and faith of the careful developine and faith of the careful advention and faith of the developine and faith of the developine may faith of the developine may faith of the developine and faith of the developine may faith of the developine may faith of developine may faith or developine may developine may be de

The man's right hand was gone, cut cleanly at the wrist. He heard gasps from behind him. The wound seemed to be partially cauterized already, but blood ozzed and pulsed into the cinders. Mart took the man's belt, looped it a few times around the hare wrist, and fastened it tightly enough to bar further blood loss, Qui fastened it tightly enough to bar further blood loss. Qui etly, in what he hoped was a reassuring tone, he said to the injured man, who probably couldn't hear him anyway. "Okay, fellow, I'm here. We're going to get medical help for you. You'll be line."

Matt played his penlight over the nearby ground, but he saw no sign of the man's missing hand. Behind him a couple of people jumped to the cinder track bed. He called toward them, "A man here needs medical attention, if there's a doctor ground."

He moved farther down the tracks. The next couple of meters could have been the afternath of combat. There would be no helping the people here. What was left of a man had been cleaved vertically just to the right of his head. The rest could only be described as large and mostly recognizable pieces of human bodies.

Matt had seen easualties this horrible before, but he had always known utry. Here he was totally confused. Was this the result of some terrible accident Earthquake? The work of terrorists? Nothing made any sense, Somewhere behind him a nervous laugh got out of control and turned to a repetitive wail before it ended with the searned of a slar.

Solution coulled past the remains and stopped, Instead of the roy half of the severed car, or even entpy rule or the roy half of the severed car, or even entpy rule or the roy half of the severed car, or even entpy rule or the roy of seven were severed, butting up fill a gainst a dark wall that completely blocked the tunnel mouth. As Mat came choser, the could led the hear traiding from the dull back surface hurring the way. Water pooled on the tunnel floor. When the bell is the reparabil of the train?

As he played his light on the mottled surface, voices behind him said, "What the bell is that?" and "Mether of God?. Matt glanced behind him and saw an array of tiny flames plercing the black. A man in a business suit sumbled forward. "Anatha. Anatha! Can vou hear me?"

Matt walked back to the man, passing a couple of enlookers with lighter flames flickering. "I'm sorry, lut unless Agatha is in the ear you just came from, she probably can't hear you. Come on. We've got to get out of here fast. We're probably still under the river, and something's cut the tunnel. We could be flooded at any time."

The suited man shook, his gaze directed toward the blocked end of the tunnet. The man who had lost his hand still hay on the guound, surrounded by three people who looked at him with hornfied expressions, hut weren't helpine. Matt moved closer.

"Help me carry him out," he said to the onlookers. He forced his voice to be calm despite his urge to run. "It's risky to move him because he might have a concussion or broken bones from the fall, but he's got to get medical attention, and it's going to he a while hefore any help gets down here."

"What happened?" asked one of the three, a woman with dazed eyes.

"I don't have any idea at all. Maybe a bridge above us collapsed. I hope the prospect of finding out more ground." He hoped the prospect of finding out more when they got moving would appeal to them, but he didn't give the bridge theory any real credence. This was something worse. How much worse, be had no idea. "Take off your cost so we can use it as a litter," Matt said quickly to the taller man, who wore a raincost. The man didn't respond

"Come on." Matt grabbed the man's arm.

The man took the coat off as though in a trance. Matt laid out the coat next to the injured man. "Come on," he said as he knelt beside the man. "Help

me move nim.

Like obedient automatons, the three each gripped a shoulder or a leg and helped shift the injured man onto the coat. Matt took the edge of the coat next to the man's damaged arm so he could make sure nothing bumped against it. Together the four of them lifted the man to waish helpit and started un the tunned "If anyone west."

tired, say so before you lose your grip. We're taking a big enough risk already."

As they reached the severed car, Matt stopped to retireve his bag, and he found some passengers were sail inside the car. "Something is blocking the tunnel back there. Everyone who can walk had better get started. No help is going to be here anytime soon from the way things look. Walls forward to the next stop. Anytone who's in good enough shape to run should do it and call nine-mes one. And stay away from the extan rail. More fast,

Someone in the dark said, "My buddy says you can call for help from phones on the tunnel walls."

"If you see one, try it. Otherwise just keep posing, But help anyone who needs it. Who can pass the word to the people in the lead care" As soon as he heard a voice say, seemed to be a soon as he heard a voice say, Seconds hare that reading the soon as he heard a light was tracking them as they walled. Wheever it was even had a pithod hung sheeking time light or the turnned walls infrated that someone was photographing them, old the soon and the soon and the soon and the soon and don't you'd We need to get out of heartheat dee, why

don't you? We need to get out of here."

A feminine voice sounded from behind the light. "This is for WNBC. What's your name, please?"

The voice seemed familiar. As a man with a lighter moved closer to the person with the minivid, Matt saw that it was the black-haired woman whose shoulder had bumped against his chest since the last stop. Matt made no renly.

They unneuvered past the wallway beside the severed car and past the lead car. Mat made stare no nor was left alloant as they passed. Flickering light illumination of the passed of the passed by the passed of the

Matt and the others were able to walk without jarring the injured man too badly, and they began to head up the moderate slope as quickly as they could without risking further injury to the victim. Steam rose slowly from a gate somewhere ahead. A couple of other people stayed close to them, holding cigarette lighters and matches in turns so the group could see a little of their strumunlings. The woman carrying one corner of the raincost got a couple of offers to have someone else take her place, but she turned them down. Ahead of them, the other passengers seemed to be taking at all in stride. Must supposed

living in New York required people to be adaptable.

Matt kept walking, trying to jostle his passenger as little as possible, as he wondered what they would find

when they got out of the tunnel.

Rudy Sanchez got a second cup of coffee from the machine in the hall and took it back to his office. The hall was dark. No one else was in yet, and Rudy liked to savor the feeling of being in before the rest of the offices began to fill. He got twice as much done when the building was calm and quiet as he did when office hours began. Beating the morning rush enhanced the feeling.

He glanced out the window at the cars coming across the Brooklyn Bridge and sat down, ready to get back to planning the replacement for the old generator on the upper east side. He'd been thinking about how to start the next phase when he realized something about the sound of the city had channed. He went back to the window.

At first everything seemed normal, Traffic was a little slow, but that was hardly surprising. As Rudy watched, his yes widened as a black shape of some kind came out from behind the Classe blanthan Bank tower. What the hell't is seemed to be some kind of craft, partilleling the conseilles, and as it moved, a florected a dim ared penfler conseilles, and as it moved, a florected a dim ared penthe penell touched land or water, destruction followed, in awe Budy pen down his coffee cup and stared. What

in a we many put down his coffee cup and stared. What the hell was going on? He put his face nearer the glass and looked to both sides. Another identical black ship was moving along the coast farther to the north.

Both black, windowless craft flew an even course as they shanted what had to be high-power lasers toward the Manhattan shoreline. Budy looked at the nearer craft. From just aff of the laser's origin, a gun muzzle threw a stream of pelities so fast and so frequently, there seemed to be a brown shaft of light right behind the laser. A deep runthing sound reached Rudy, quaking the

A deep rumbing sound reached Rudy, quaking the floor under his feet and vibrating the windows. He had the impression of thousands of small explosions occurring in the slit opened up by the lasers.

As Rudy moved to turn on the radio on his desk, the lights went out.

Abby Tess had left Grand Central Terminal and was on bee ways to the United Nations General Assembly Building when the traffic lights went off. Normally she enjoyed the sub-block walls, but today she stood on the sidewalk in frost of the Chrysler Building and backed against the wall as the crowed oraned and the ear hooking intensified, as if to fill the pap Causted by the sudden aborace of subterment of the control of the control of the control of exhaust fines. Abby hadn't seen a power failure since she'd moved to the Bronx three years earlier. It made her nervous. She edged along the base of the building, feeling the

one enget arong use take to the containing seeding or upen to get to work quickly, but knowing that without special power for microphones, amplifiers, recorders, and light seed wouldn't be recorded for much translation. So we not seed to the containing the containing the containing the seed of the containing the containing the containing the better than the containing the containing the containing the decrease of the containing the containing the containing the seed of the containing the containi

Fighing down the panic, Abby began sprinting roward the U.N Filters preas good be that Deem in training for the Olympics. In a timed run during physical education, the property of the property of the property of the the fastest runner in his class. Encuesting of the preparent, who saw running as a good thing to balance out all the house that the specim in her room substying, the had gone to the property of the property of the property of activity partly because it was one more very the could excrease her foreign language skills, but the great to crijor the running liself, finding that when she lit her sende she could loke all her wormers. This meet she found here the could loke all her wormers. The time she found here

Arsenio Hecher pulled into the right lane fast, finding a spot that wasn't directly behind a delivery truck. His fare, a white couple with a kid, didn't complain. Out-of-towners were outerer than the natives.

Amenio kept watch in the calb's rear-view mirror as the whiche moved onto the Brooklyn Bidage, heading northwest into lower Manhattan. The traffic was moving fast for rush hour, but it was never fast enough. Sometimes Assenio thought about finding somephase less congested so he could really more, but when I came right down to it, he liked the way New York feed moved. Amyplace the country of the country alternoon, and he was the country of the country alternoon, and he

could never go tack to trait.

Faint sunlight his gray waves cresting in the East River Assenio honked a reply to a fellow yelfow as the other cab odged past him. Why was the other lane always faster?

The cab had just emerged from the stude of the large bridge support near the Manhattan shore when a moving shadow flashed over the roots of cars and tracks ahead.

Smanner over the roots of cas all tudes shall Someone must have been on a hell of a low path to La Guardia. Assenio craned his neck to see what kind of plane it was.

The woman in the back seat asked, "Does this sort of thing happen a lot here?"

He didn't know what she was talking about until he looked forward again. A field of red taillights glared at him and horns began to honk even faster. As he watched, a spatkling red light flashed across a truck ahead of the ear in front of him.

Assenio slammed on the brakes as the truck exploded. The car behind him smashed into his rear bumper, and the man in the back seat yelled, "What the hell?" as in the rear-view mirror Assenio saw a truck plow into the gay behind him. The kid began to cry.

From the corner of his eye, Arsenio saw steam explode

from the water at the edge of the river, as though a long thin heater lay just below the surface. As the cab finally showed signs of stopping successfully, the road surface beam to tll forward. The bridge was coming aton! "Cran!"

registroria forwaris me intege was visuagation. Contrage addition therefore was turning into a drawbridge, but backwarts. The section America's cals was on third down. As his partie rose, and he jamuned his foot on the brakes hard enough to force the artificts, but printing rules see can so the dotte risks of this but having rules as the transition of the contract of the contract of the substitution of the contract of the contract of the wheels span, and can sid tackward, soulder sing from their time. It is also me more all the contract of the contract of the beautiful and the contract of the contract of the contract of the beautiful and the contract of the contract of the contract of the wheels span, and can sid tackward, soulder sing from the their first hard the contract of the contract of the contract of the beautiful and the contract of the contract of the contract of the wheels span, and the contract of the contract of the contract of the span of the contract of the contract of the contract of the contract of the wheels span, and the contract of the contract of the contract of the wheels are contract of the contract of the contract of the contract of the wheels span, and the contract of the contract of the contract of the wheels are contract of the contract of the contract of the contract of the span of the contract of the contract of the contract of the contract of the span of the contract of the span of the contract of the contract of the contract of the contract of the span of the contract of the contract of the contract of the contract of the span of the contract of the contr

For an instant, Arsenio thought the cab was stopped precariously on the slope, but the bridge lurched again, and the car behind him hit his bumper one last time. The cab slid off the end of the broken bridge. The screams from the back seat blended into one loud roar.

Arsenio cursed uncontrollably, his hands locked on the steering wheel and his foot still pistoned into the brake pedal for the entire time it took before the cab smashed into the water.

From his darkened office, Rudy Sanchez Iooked out at the destruction along the Manhatan shore. The Beooklyn Bridge had been severed, two trucks sliced in the process, and cars had spilled like toys into the river. Boots docked along the piers had been cut in two as seam rolled into the morning air. Rudy stood in shock, the deed televibnes estill erimed in one hand.

He had been tempted to run to help someone, anyone, but now he just stood, temporarily locked by hadcision and fear. It seemed to him that anything he did now would be beining a tidal wave with a teaspoon. A couple of fires had started where natural gas lines ran under the East River to Brotchy, but cutoff mechanism that didn't depend on power would limit the amount of gas available to burn.

The black craft closest to him switched off the red light, undoubtedly some unbelievably high-power laser. The craft rose swiftly with no vapor trail until Rudy lost sight of it.

Signit or it.

The city sounded sick. The occasional rumble of a passing subway hadn't been audible for several minutes. The increased framit honking from cabs and trucks grid-locked without working traffic lights more than made up for the lack in volume, but provided no comfort.

A filtcher of biack caught Budy's eye. The earth were charming He leaned forward and could see two more of them lying in farmation but speacing the pattern as they fell. And what they were doing was even stranger than before. There seemed to be some filmy transparent material stretches between the crift. They looked are fit they held some enomous scarp bubble. What in God's nome is hatterning?

The nearest black craft settled slowly toward the shoreline, stretching its corner of the bubble as it fell. Moments later the craft hovered over a severed dock. The corner of the soap bubble widened, and the edge of the bubble began to pull isself down toward the shoreline, apparently scaling itself to the ground or to some material the ship had deposited in the groove it had cut earlier. Within minutes, the filmy bubble had settled into a smooth scal for as far as Rudy could see, it seemed big enough to be covering the entire island of Manhattan.

The black craft rose, moving away from Manhattan as it did. Another one entered Rudy's field of view. Seconds later they both stopped, and stayed where they were, hovering.

Rody had no warning. In one moment the ships just howered. In the next moment a ginent flashbulb went off. Rody could see nothing but sparkles surrounding a large red spot for the next minute, but slowly his vision returned. When it did, he could see the bubble was still in place, but now it seemed more tangible. It was still transparent, but the reflections seemed brighter and they no longer wavered.

The hovering craft were gone. As Rudy tried to see where they might be, an enormous shadow crept over lower Manhatton.

Julie Kravine took a last few shots with her minivid, then shut off the sand-grain light. The image of the stalled subway cars faded from her retinae, and she turned to follow the structure in the tunnel.

totion the straggaers by the furnner.

A head of her were the four people currying the man who had loss his hand. Julie cringed just finishing about it again. And she remembered the severed boddes they were leaving behind. She had taken shots of them, too, more so that people would believe her report than because they'd be used on the news. She hadn't felt this ambivalent since she left Tom.

Distance since see ear tom. Julie felt uneasy. The ground rumbled with some unidentifiable tremble, and things just felt wrong. If the tunnel collapse was some localized catastrophe, she'd be bearing the rumble from other subways as they traveled nearby. Instead, the only vibration was that constant faraway tremor.

The rumble stopped. Suddenly the underground felt completely quiet, unnatural. Something was definitely very wrong. Julie hurried ahead, following the flickering lights. She stumbled, then got back to her feet and started

picking cinders out of her palms. The turned smelled oils, she caught up with the fururons. A couple of menwalked with them, holding eigenetic lighters, obviously on her tirsy light and minured, explaning ten seconds of on her tirsy light and minured, explaning ten seconds before turning them off. She felt pride in how well New Yorkers were responding to the trubble. Her sister in Calumbas complained about the crime rate and the appropriate of the complained to the crime to the contraction of the contrac

Julie moved to Catch up again. She was tired from covering a late-night hostage crisis in South Brooklyn, but the good part was that it had left her with all her recording gear and a moderate battery charge at just the right time.

She caught up with the others and turned on her minivid, set to voice-only to save the charge. The tall man who had been next to her in the subway when it all started gripped one corner of the raincoat holding the injured man. He was the same one who had calmed the crowd with sensible directions and a take-charge attitude that didn't smack of dictatorship. And he was the same one who had declined comment earlier. Was he a core?

The man was going to be the focus of this piece, whether he liked it or not, Julie decided. She moved deliberately to one of the other three people carrying the

"I'm Julie Kravine with WNBC," she said to the wom-

an who carried one corner of the mincoat, "What's your name?"
"Bette Waylon," The woman wore a dark jacket with

the bracelet cuffs made popular in Way Down and Way Over.

"Can you tell me what you thought when the lights went out?"
"Nothin', I guess That I'd be late for business."

"Any ideas about what might have caused this?"

"Naw. But we can find out on TV when we get back

up."
"Anyone else here with a theory?" Julie watched the tall man. He opened his mouth but didn't say anything. Julie moved around until she was next to the tall man.

He glanced at her, then looked ahead.

"And your name is, sir?"

The man replied without looking at her, "Mart Sheehan," As she formulated her next question, Matt added, "And I apologize for being rude back there. I thought you were just another idiot with a cameru. I guess I was a little eday."

"I think we're all a little edgy," Julie said, thinking that he seemed the least edgy of anyone down here. "You a cop?"

"A copt No."

"You seemed to adapt pretty quickly to the situation.
What's your background?
"I've spent some time in the service."

"Ah. So, do you have any theories about what happened back there?"

The man was silent for a moment and several pairs of feet crunched gravel on the dark tunnel floor. "Not really." "Nothing at all?"

*No. Just that I'm betting the problem isn't just down

"What makes you say that?"

"Just because this section of tunnel goes under the river. It's got to be going through bedrock. Anything geneating enough force to do damage like what's back there isn't going to be confined to one tunnel." Julie had been so intent on getting pictures and reac-

tions that she hadn't thought much about anything else, but a sudden lurch in her stomach told her the man was probably right. An instant later she wasn't so sure the reaction had been nerves.

The ground shook. People currying the injured man stumbled as they passed through a plume of rising steam. Julie crouched in the dark tunnel, feeling the same sensation she felt in an elevator as it accelerated unward. In the Columbia University computer science department building Dr. Bobby for Brewster awoke with a start For an instant, he felt he was at sea. The desk his head

rested on didn't seem solid, and neither did the chair he

sat in. He jerked his head upright,

"Piss!" Bobby loe looked at the dark computer screen in front of him. The atmospheric simulation run had been almost complete when he must have finally fallen asleep. And now he'd have to start over. The power had gone off and it had stayed off long enough for his uninterruptible power supply to use up its charge.

The floor furched, and a stylus on Bobby Ice's desk rolled a few centimeters and stopped, "What-

Either the students in his computer modeling class were playing one hell of a trick on him, or something was really screwy. He rose and moved to the window Yun, something was really screwy, Bobby Joe decided. He rubbed the sleep out of his eyes, took another look

over nearby building tops and watched New Jersey sink. "All right, you guys," he said loudly. "It's a convincing display.

He listened for knighter or some other response. Nothing. He looked out the window again, first as far to the left as he could see, and then as far to the right. He'd spent enough time in VirtReal simulations to know what was real and what wasn't. This was real. But it was unreal. Traffic had come to a complete standstill on every road he could see. In the distance a huge mall vaguely

resembled an aircraft carrier from this high up. Boats left their trails in scummy water. Slowly moving out into the Hudson was a line of turbulence.

He looked up as best he could with his cheek flattened against the glass. Overhead was a solid black cloud. Or

was it? The edge looked awfully straight. Bobby Joe looked back at New Jersey. He could see roads he'd never seen before, and the shoreline was beginning to disappear from view as it fell below nearby

moftons Fear forced him into peryous humor. This was not going to be a good day

Annie Muntz was eating breakfast and watching the morning news in Opens when the lights flickered and the TV picture froze on the last frame. Motion out the window caught her eye.

On the table next to the couch was a thick tumbler with an inch of Scotch in it. She rose and moved closer to the window for a better look, taking her drink

At first, Annie thought somehow her apartment building was sinking into the ground, because the Manhattan skyline was slowly but undeniably rising into the air. And the skyline was under a huge transparent arc, as if all the buildings had been out under a giant cake cover.

As she watched, her knees felt weak. The entire bubblecovered island of Manhattan was slowly rising into the air. As it continued to rise, she saw what was underneath the island. Below street level was a huge cone that extended deeper than the Empire State Building was tall. A dozen dark lines led from points all around the is-

land up into the air. Annie's gaze followed the cables and saw an enormous black ship even bigger than the captured boroneh, hovering above it. A puzzled expression wrinkled her forehead. The alcohol level in her blood was high enough that for a long moment she considered the possibility that she was witnessing the adverrising stunt to end them all.

Figuily Aggie velled to her husband in the next room. "Hey, Herb! Come here. You really should see this."

The year half of the A-train subway had sustained far more dumage than the front half. The year half had crashed into something very hard.

Greans filled her ears as Shirley Hamilburg regained consciousness. Her first thought was that she'd had a super-realistic dream about going to work, and then she worried that she'd overslept. Finally she opened her eyes and managed to convince herself she really was awake descrite the fact that she couldn't see. Where was Frankic. and what was wrong with her eyes?

Light flickered somewhere to her left. She turned her head to see where it was coming from, and she finally realized that she really had been on a subway car. So where was she now? The light flickered again. It was someone with a cigarette lighter or a match. Suddenly she realized bow hot she was. The air was stifling. She was still in the car.

Shirley lifted her head, feeling the pull of pain from her shoulder as she shifted position. Lights flickered from somewhere outside of the car. She was in a mass

of bodies like some nightmarish orgy

Shirley tried to extricate herself from them. When a nearer flame lit the darkness, she saw that the man ahead of her must have hit the handfull support pole very hard. From near the front of the car came the sound of someone throwing up, and Shirley winced. She'd almost rather be dead than be throwing up.

Shirley finally managed to free berself. She moved over a few still bodies by supporting most of her weight from the overhead bar. The door had already been forced open. Outside, to the right, near the front of the train, lights flickered. She edged between the car and the side of the tunnel. The car itself was obviously not sitting evenly on the rails, and it leaned toward the onposite side of the tunnel. She passed the end of the car and walked beside the car ahead, which had lackknifed. Shirley caught up with a small group of people holding flickering matches and lighters.

By the wavering light she could see that the first car in line had somehow been cut off as though God possessed a giant meat cleaver. The crumpled half-car rested against a solid obstruction blocking the entire tunnel. Two lifeless faces gaped and stared unsecing through the blood-smeared window.

Shirley stared at the blocked end of the subway tunnel. A man beside her said, "I don't understand. What's going on?" Shirley shrugged. She had no answers.

A sudden rumbling and creaking began. Someone in the small crowd said, "It's moving!"

Sure enough, the black harrier at the end of the tunnel was sliding upward. And outward. Light filtered into the tunnel, and Shirley squinted as her eyes adjusted

The gap between the tunnel mouth and the upwardmoving plate widened. The gap kept on widening. Instead of revealing the other side of the tunnel, though, a chasm opened just past the mouth of the tunnel. Some-

one in the group murmured, "Holy crap." The others in the crowd seemed as speechless as Shir.

ley was until the hottom of the moving shape reached eye level. More and more light filtered down until daylight finally reached the bottom of what was an immense cavity like a strip mine. And above the void, an incredibly large dark shape floated higher and higher.

Water began to spill past the tunnel mouth, but not before Shirley had gotten a view of gaping tunnel mouths on the sides of the elongated chasm. The pair of holes more or less in line with the direction the severed subway tunnel pointed had to be the Holland Tunnel, and just to the right was a PATH rail line tube. To the north were another pair of severed tunnels that would be the

Amtrak mil lines. God almighty.

Even farther north was a trio of tubes, the Lincoln Tunnel. Grimy black smoke poured from the rightmost circle. Water began to slosh past the other tunnel mouths as Shirley's mind finally began to come to terms with what was fairly obvious but very difficult to accept: all of Manhattan was rising into the air, leaving a huge long

hole in the ground in the same shape as the island. The waterfall grew louder and louder, but for the moment, the water was moving past the tunnel mouth fast

enough that little water entered. By that time, the entire perimeter of the lip looked like Niagara Falls. A man in a sweater and a vest said slowly, "Oh, God. Do you realize what will happen when the water fills the

hole and reaches this height? Suddenly Shirley knew exactly what would happen. At about the same time someone else said, "We'd better

schlepp our butts out of here!" A kid in a black jacket said, "We'll never get all the way back before the water runs down the tunnel and reaches us. We'd be better off jumping in." By now the falling water made a thunderous noise.

"Yeah, sure," said the man in the sweater, "Be my guest. Go ahead and jump. It's like a goddamn blender out there. And if we wait for the water to reach here. we'll just get caught and sucked back down here as the

water drains into the tunnel." Well, we gotta to do something," the kid said.

"Right. I'm running." The man ran back into the dim tunnel. Most of the others followed, and Shirley went, too.

They ran through the nightmare blackness until Shirley's lungs threatened to explode. They hadn't even managed to reach the lowest section of the tunnel before the water began flooding in. The wboosbing made her heart race even faster. Wind started rushing out of the tunnel. and two cigarette lighters went out. Cold water swept

past Shirley's ankles, and seconds later she was sloshing though calf-deep water.

The water suddenly seemed to move faster, and it swent Shirley off her feet. The current carried her in total darkness. Her feet dragged against one wall, Her body tumbled in the turbulent current. She couldn't tell which way was up, but she had to breathe

Shirley had held her hreath as long as she possibly could by the time the current smashed her head against

a maintenance panel.

Rudy Sanchez stood transfixed at the window as the Municipal Building creaked around him as though in a high wind. Some enomous ship above the city was obviously lifting the entire bubbled island into the air. A disturbance spread into the water in the Upper Bay as though a drain had opened in a giant bathtub. The Staten Island ferry had been moving toward Manhattan, but by now it had turned 180 degrees and was trying desperately and in vain to move south before it was dranged backward into the depression. Rudy could see a mass of people at the back rail of the ferry as the crest of turbulent water began to shake the ferry apart. Rudy had to shut his eyes.

When he opened his eyes again, Rudy could no longer see the ferry, but as he craned his head and lookey southwest he was just in time to see the Statue of Liberty disappear helow the horizon, looking for all the world

as if she were waving good-bye. In less than a minute Brooklyn dropped from sight,

and within minutes Rudy could no longer see the Atlantic Ocean. The atmosphere slowly shifted from blue toward black. The image of the Statue of Liberty still burned in his memory Rudy glanced at people on the ground. Hardly any-

one was moving, and almost everyone seemed to be

staring at the dome.

The sky outside the dome now looked almost black Rudy could see stars around the edges of the huge black shape overhead, and on the ground shadows seemed sharper than normal. The sun was brighter than

As Rudy watched, the dark shape overhead suddenly grew wider, blotting out more and more stars until the only stars Rudy could see were almost level with him. visible through the side of the dome. His stomach twisted as he decided the ship towing the city hadn't come closer, but instead they were now underneath a ship that dwarfed the one that had picked up Manhattan. Rudy swallowed hard.

The black shape started to blot out more and more stars, as though a buge black cylinder was being lowered around the island. Rudy watched helplessly as they

were pulled upward into the giant shin. The light from the sun was cut off, and Manhattar moved into darkness +

Folds of Blue Silk

Danith McPherson



This guy's chatting at me like an ancient Western. Red and black in the bar's moody lighting instead of colorized, Sophistication painted over fronter attitude. My fingerprins push stadows across the table so I won't look for the rubot series. Won't glance toward the bartender. Won't bear to the tay in yes for the substantial of the substantial to the suit. Somewhere, Who watches

Ridges of swirds and whords are against the table's mirrored plastic. I ride the last taste of a silk wave. Near the end of an unregistered sequence of artificial days and nights in a world that has neither naturally. Fear that I will

revert to the pattern and not take the risk. Fear that I will risk and again fail.

"It has no comers!" The cowboy laughs, fishionably amused at his own nunch line.

Nik pulls sound through me. Mingles it with the internal rhythm of the band's pounding nusic over the earvibe. Slow-motion mouns from the orgasmic contortion
on the wallscreen, hoodegged satellite sex from Earth,
Intertwined conversations and real-time movement from
the room, street somning sation.

Blonde hair curves around my face like a hood, ending even with my chin. Cowboy tells me I'm beautiful. Does he woo me with truth or a lie? At least I was born with a normal appearance. Spraned the sungialty perfect face and body the court would have ordered as part of my rights. Can't have our kilot genius looking mentallyretarded, you know, someone might decide it was wrong to use the for inhibited work.

"Amanda," he says, a name I use more than others. He finks my inattentiveness chie. He thinks I look away and smile because he attracts me. The tips of my fingers, nails chewed to bleecling, travel through faint residue on the polished table. The absence of numbers puts the curve to my lios.

Numbers: curse of being a genius. Numbers and symbols for numbers. They grow in my head like vines, mental kudzu. Choking all other thoughts. Only silk flutters them away.

Naked pomography blinks to an overdressed newscaster prepared to display a different set of distortions. Without slowing, the rhythm of the but turns to the screen. All things from Earth are viewed with the same reverence. And skenticion

"An unnamed source at the recently created Department of Space Exploration and Management reports that peroblems with the agency's new fluid computer have delayed the planned launch of the Pflgrim. A speaker for the department denies the report, saying that although problems do exist with the Ultra's, a back-up system is functioning as planned and the routext is on schedule."

The natives listen while pretending not to. Most of Luna I—I is part of a chain reaction involving the spaceship. The only truly inattentive are the tourists. Cowbov.

"A poll conducted by our own network personned shows that if the launch is delayed, public opinion will most likely turn against the staffed flight beyond our solar system. A successful launch is necessary to justify the department's formation and substantial budget."

A bun vibrates across my nerves, expected yet starting as a fulfilled wish. The robot server sides into my peripheral vision. I've practiced the art of seeing without locking, find it useful. The server defirens tail glasses. Red and black dance across the silvered carrest. The transes of the drinks we ordered print themselves on the transes of the drinks we ordered print themselves on the start of the tab. I buttle the urgs to look into my glass, then off the tab. I buttle the urgs to look into my glass, the mentarity win. I offer no para and corboty is pleased.

I crush carefully folded bills into my palm. Feel the small lump wrapped in paper. Sound retreats until I grow deaf. Silk is the only courage I have. The only constant I value. A piece of blue tablet resides in the bills. Exorcist of demon numbers. My fingerprints seal the packet, thick so I'm sure the bartender is being sufficiently overprid. I slip it into the slot on the server's belly.

The server glides to the next table. A chunk of blue freedom gone. Exchanged for a future. Numbers rattle outside my head like ghosts. I will not turn, I will not look at the bartender behind his acrylic barrier. If I do, my face will twist with pleading. And the suit will know And the suit will stop me.

But if I hold still, just hold still and believe that the barriender can be trusted to take the fragment of blue stik and store it in whatever severe place he has. Can be trusted to feed it back to me, contide chough so it won't dissolve until after my tolerance level for the levely him has dropped, As be has before, unsaccessfully, As I hope he has now, successfully, Just hold still and let the moment russ from silence—

Cowboy nudges my drink, trying to gently force a slug of alcohol through me, thinking inchriation will ignite

into lust for his designer body

Now I look. Now when it will not seem strange. Black liquid crapps with swifting red beads. And one bead. Larger than the rest. Surfaces and dives with the constant motion. The bartender is a saint. A god of salvation. I clink my glass to cowboy's. Savor the metallic ring as the large bead sidies down on throat

Music and voices rush through me. Relief spills from my mouth in laughter. "I'm a genius," I tell cowboy, Like Amanda, it's my own designation for myself. Not theirs. No. They believe me incapable of creative thought.

I learn close "Which one is wearing the suit?" I sip my drink to expand his hope. Cowboy looks at me stupidly. I can't deal with stupid when I'm on silk.

"It's a game," I explain, "Ignore the clothes everyone is wearing," He likes that idea. "See them act, move, sit Which one is really wearing a said?" I keep my eyes on him while he watches the black and red dance hustlers, the black and red drink bustlers. "That one," He nods toward a feather-capped dancer fiving with the song, crest biobbing at the band.

suspended in its plastic cage.

Cowboy doesn't understand, Isn't interested in the game. Only in exploring my body. He's pretty the way

game. Only in exporting my boay, he's pretty the way an agate becomes smooth from much grooming. I want that prettiness while the silk still rolls in my blood, embracing me in blue folds. He knows I'm won but he ignores it to prolong antic-

ipation. To keep the night hot with crackling auras of close flesh.

He says rehearsed lines, adding inflected nuance, fab-

rication of depth. I respond, automatically spontaneous. He reaches the end of his flat wit and is in danger of falling off the edge. So we leave, stumbling along the tunnel through false gravity in the direction of his rented heed.

Away from the bar's holo-lighting our clothing rejects color and returns to white. Pale in the uneven pattern of glowing and perpetually broken lights.

A red and black hustler, the one who is really wear-

ing a suit, steps through the portal after us. Turns colorless. Follows.

Unmarual lab light forces a squint. Storp edged, Distatling in its reluction to from shadows. The fresh tast of silk is sweet on my tongue, at least Wickman didn't wake ne in that termble place he effects to as my roun. He does that when he wants to armay me. Devylining, the martine of the state of the

I have no connection to that room. Not while silk rolls in smooth waves, billowing gossamer. And not while it

doesn't.

The dull ache at my temples tells me the silk has been gone a long time. It moves sluggishly in my veins.

"How long."

Dr. Wickman's angular face flickers with a professional smile that is supposed to be warm, friendly. There must be someone else in the room. "Not long," he hes. I force a meaningless random number into my head while I still can. "Eight days," I prod him so he'll choose a resonne close to the truth. Something went wrong.

My mind aches and can't tell me
"Little more than five." Another lie. "You know what
five means, don't you?" he tauns. He propels an electronic pen across the sensitive surface of a personal notebook and does not look at me. I am too normal now to

be of interest. He forgets to pretend for the other person.
"That's illegal." It was probably—a number forms, a silk wave rolls through my blood, the symbol vanishes unrecognized. Probably—more. More than what Wick says.

"You signed a consent form."
"That's a lie," I say because I want it to be a lie.
He grabs a sheet of smoke-thin pennapaper, waves it

in my face, lets it fall to my lap, a wounded butterfly.

The undersigned does hereby consent—

At the bottom is a thumberia. Beside it, written in a procise scrawl, is the name my highly educated parents

gave me before they turned me over to an institution that later sold me to the feds for a research grant.

"I'll contest it in court." I wasn't supposed to have signed this time. But I can't remember how I was going

signed this time. But I can't remember now I was going to stop myself, my other self, from doing whatever Wick instructed.

Wick smiles. Predator smile. He picks my bones to

Wick smiles. Precitor smale. He picks my nones to feed his insatiable craving. Eyes so calm there is no life helind them. Only dull hunger for the work. Laws direct my existence. Enslave me and protect me

with the same words. As incomprehensible as symbols. I'm incapable of using them to help myself. I can call up a lawyer's i.d. on the registry. I think I have. Sometime hefore. But while I'm on silk, symbols slide away without entering my mind, leaving my fingers without direction before the meaningless panel of the comment.

tion before the meaningless panel of the commnet.

I rub my temples and blink away the ache. A squat,

bearded man steps close, watches as if I were a rat that just ran a maze at the speed of light. Another doctor, "I hope you're a lawyer," I say, not allowing him to remain a detached observer.

"This is Dr. Delancy." Wickman says.

Delancy does nothing to acknowledge the introduction. This is not our first meeting, then. I chill, knowing what he saw. Before.

"Extraordinary," Delancy says. "I haven't worked with an autistic savant before. I wouldn't have believed it if—" "If you hadn't seen the freak yourself," I finish for him. "This isn't an exhibition, Wickman. I'm not on display

for your friends."
"Dr. Delancy has been directing you." Wick retrieves

the untouched consent form from my lap. "He's coordinating the current phase of the project."

My stomach churns. How can this plump, soft man

tolerate the near comatose thing that recites numbers? I cover my face against the stinging light. My hair falls forward, forming a globe.

Wickman taps my head until I look up. He hands me

Wickman taps my head until I look up. He hands me a familiar shiny box. I open the lid to be sure. Blue, curved waves that keep the silk rolling crowd together in the silver lining.

I span it shut and poss it into my palm.

I snap it shut and press it into my paint. "You didn't count the pills, of course," Wick says, "but you recognized that I've given you the usual amount. I must inform you that apparently you've developed an increased tolerance for the neural suppressant. It's rare, but there are a few documented cases."

Rare—that's me.
"You returned hours earlier than usual," Wick says,

"and you were in a significantly advanced condition."

"I'm not coming back." I smear my fingerprints across the silver box.

Wick ignores my declaration. "You were asleep on the tunnel floor at the lah entrance. Your fingernail scratches are in the lettering on the door."

Is he being cruel by lying or hy telling the truth? I don't look at my ragged nails. Pink skin torn, stained with dried blood. "The suit screwed up, then, can't even keep teack of a retard in an orbiting station. You'd better hire

have a right to know," he says.

track of a related in an orbiting station. You'd netter hire a new one."

Wirkman sight. I have skewered a tender spot, "You

"You're so careful with my rights. You and the sait," mustace of privacy. Not allowed, Wick torments me with the rules he chooses to follow and the ones he ignores in accordance with my rights, he "we "wasting an architige, responding with mechanical precision, growing at my responding with mechanical precision, growing at my fingermals, signing consent forms I do not comprehend. And in that horized exon with the pudded walls, watchage with 6 old involves—the only intensories I curry with

He expects me to be grateful for the visions. Grateful for my periodic right to silk. My reward when he can no longer withhold it, when the "legal" consent forms that prolong the work sessions expire and he must grant it to

Folds of Blue Silk 41

Wick is conscientious in his reminding me of all the dispersion details. So I'll understand, he says, about the blue pills, about having them and not having them, about the brain's tolerance level, about the cycle of so many days on and so many days off. About why I can't be on silk all the time.

Scratches in the door. Slashes through the stenciled letters. Truth or lie. How can I tell? Delancy folds his arms across a wide chest that

bulges his lab coat. "A circle has a radius of two centimeters. What is the area of the circle?"

"Wickman, get him away from me."

Wick doesn't budge, but at least Delancy is quiet
"Your favorite band is playing at that bar you like to
go to." Wickman is showing off for the new doctor. Tap-

plots. Westigat is showing on for the new diceor. Tapping at my joints to demonstrate my reflexes. The bar. Something went wrong. The bartender misjudged the amount of coating needed on the silk. I've no numbers to give him guidance. It attached itself to

no numbers to give him guidance. It attached itself to the wall of my stomach, then dissolved too soon. Again, And my body rejected it. "That part of my life is off limits to you," I say. "You have no right to intrude." "Of course."

Silk doesn't affect normal brains. There's no black market, so the burtender has no reason to substitute something else and sell the silk.

And I believe I pay him very well to follow the instructions I slip into the robot server's slot along with the hills and chunks of blue

Apparently I'm rich, but how can I tell? I only know that my account is never empty. The law prescribes that I be compensated according to my ability. What's a genius worth in the job marked? I've read my own press. No one else—no other idiot savara—and to lightning calculations of complex equations as I can. A computer is only as good as its software. I'm hardwired from birth against error.

And a computer can't affect its own existence. I can.
When the bartender finally gets the amount of coating perfected, how long before Wick realizes I've cut a

trip door through the side of the muze?

His confidence in the watchful suit will slow him down. His belief in his right to exploit me will keep him

No. I don't lie to myself. At the first rebellion he'll know I'm no longer a passive rat. Then I must be more

careful.

I'll still be imprisoned by silk and my body's tolerance
level, by the cycle of on and off. Still enslaved. But within the parameters of slavery, I will wrest what control I

can. I will take what there is to have.

I can't simply save a blue and hide it on my person. Once the effects begin to slip, once the waves begin to calm, I revert to that other self. Time compresses and the future is lost. I swallow my last grams without thought. I've never gotten as far as worrying about how to smugde silk into the complex, about finding a place to hide it.

gle silk into the complex, about finding a place to hide it in that monstrosity of a room until the immunity expires. I can't hide it from my other self. I can't stop that person from sabotaging my own escape. So I watched the movement of illegal commodities through the bar along with the other hustling. Watched without seeming to watch. And the bartender was the hult. I worked out a plan and made contact through the

robot server. Right under the scrutiny of the suit.

Silk flows smoother now, and the initial disorientation
eases. I ache to escape, but my legs feel wobbly, unable
to support me.

Delancy is not the only new item in the room. There is also a board, the kind that can be written on and then

The soft-white surface holds rigid lines of numbers and the symbols for numbers. Numbers and symbols. Num-

the symbols for numbers. Numbers and symbols. Numbers are symbols, and combinations of numbers and symbols mean other numbers, other symbols. When I'm not on silk, the number-symbols push ev-

crything else from my mind until I'm no more real than they are, no more than a black sersivil in a formula. Only silk rescues me, gives me breath. Makes me real again—as long as silk rolls:

"A markerboard. Is your new toy broken, Wick?" I know is true, but I'm uncertain where the revelation came from: its that why you needed me for—the number forms but escapes without my recognizing it, without my knowing what it symbolizes—"for so many dros?"

Wick's frown digs a deep channel between his heavy eyebrows. Delancy's round eyes are wide with surprise, as if the rat had recited Shakespeare. "She understands..."

Wickman cuts him off with a waving hand. 'It is only the temporary effect of the dung.' But the movement is too franke for Wick. He studienly sees me as dangerous too his precious top-excer project. Silk gives me prover. Would the media be interested in knowing that the leading computer scientist in the world—and beyond—has to have calculations done by hand because his computer is brooken?

Delancy gazes at me with the soft puppy eyes of pity. "Then we should get her consent for the next phase now, while she can comprehend its importance."

now, while she can comprehend its importance."
"Already planning another extended session that
breaks the law, Wick?" The thought shivers though the
silk. I would not be aware while it was happening,
would not rengember afterward. But it would keep me

in their maze longer and away from the blue folds.

Wick speaks calmly, an expert in the legalities of my
condition. "She's under the influence of a drug, Anything

she signs now would be ruled illegal."

Delancy protests, "But without the drug she doesn't realize—"

Wickman swivels a Good stare to Delancy. 'Doctor,' this gatteint has been under my care and guidance for risic years, since she became eighteen and a court of law model it legal for the government to employ he for less well as it legal for the government to employ he for beer specialty. She is an adult. According to the federal Baltow Act, no matter what her incidigence quotient or mental disability, she can cater into any contractual agreement with a closes. And according fo federal law, continuously agreement si illegal if one of the parties is under the influence of a nonmedicinal substance. The

neural suppressant is still experimental and therefore not recognized as of medical benefit."

The first part floats too far from my grasp, but I un-

derstand the rest. Wick is calling me stunid. "A court would rule differently if it saw . . ." I let it

fade, unable to speak of my other self in front of Wick. Perhaps, But there has been no test case involving the use of the neural suppressant on an autistic nation to

set a legal precedent." Wick outs a hand on my shoulder. Leringe, but he clamps his fingers tight, "You could be the first. Of course, you would have to pass a drug test before filing your case. It's unlikely you'd be able to do both at the same time." "Government logic " I say

'Isn't the right to experimental products and procedures that might improve your condition worth a little incongnity? The government even supplies the neural suppressant."

"Learn my way."

'Yes, you're one of the few"-he pauses a heat. Delancy doesn't notice. I do-'capable of contributing to the society that provides for your needs. He means I'm one of the few of my kind Prodigious

sayant. Rare of the rare. How disappointed the scientific community must have been when it discovered me Ladies and gentlemen, we have good news and bad news. The good news-we have found a human brain capable of performing mathematical calculations better than our best computer. The bad news-that's the only thing this brain can do.

"I'm not coming back," I say. "That's your right of course."

Wick doesn't believe me. Do I say this every time? I walk out of the lab on uncertain legs. Sound comes to me. Makes me transparent. The buzz of the harsh lights crackles through me. In the long gray tunnel that

connects the government research section to the rest of the orbiting complex I don't look at the door. I don't want to know if there are fingernail scratches through the stenciled letters.

The ache in my head is enormous. I hold very still to avoid vomiting. Perspiration slides from my upper lip into my mouth in saity drops. I keep my cyclids clenched tight against the blast of fluorescent light. Only a negative image. like the holo effect in a bar I know, registers. A round face, puppy eyes, bow mouth pushed into a frown by noughy cheeks.

The nausea eases as silk drapes over me. Lightly I tooch a wrist. Clammy, but real skin, Not the rubbery falseness of surgical adhesive holding flaps of tissue together like the last time I came to the silk feeling this had. Wickman was very angry with me for trying to kill myself. I was angrier with myself for failing. He kept me from silk for a long time after that. My body hombly rejected it when the blue wave finally rolled through my blood, Coaxing, Coaxing until I relaxed into its folds.

Beneath the ridges on my fingertip I trace the thin line of the old scar. The memory of failure keeps me from teying again. So far.

"Are you all right?" says the negative image on my evelids

"How long" My body tells me it has been very long. 'Fifteen days.'

The truth, although I don't comprehend it. Delancy. then. A sin of clear water touches my lips and I drink. relishing the aftertaste of sweet silk that lingers from a previous escallosy

"Don't baby her, Dr. Delancy. She's not a child." Wick's voice

I sigh down to my soul. Another chunk of blue, en-

cased in red and swallowed with a Lunar Blast, wasted, Another eject of freedom lost. The casing, thicker than before, still dissolved too quickly, releasing silk before my tolerance level fell. "I'm not coming back." I whisper through silk. "I'm

not coming back.

I lunge from the room as soon as my legs can support me and stagger through the internal design of boxes and ballsows to the stenciled door. The gray tunnel provides only one way to go, but I'm grateful for that. Behind me I bear Delancy's soneaky shoes and labored breathing as he tries to catch up.

I wait for him before the juncture to the main tunnel. Somewhere in the confusion of shops and bars and too many people in too small a snace the suit watches for me to turn that comer. I prefer the suit not see the lab-

coated doctor flapping after me. Delancy puffs and grabs his chest. He is slightly taller than I am. His puppy-pity eyes look down at me. "I'm not some you'll understand any of this, but you should know-" The pity is really for himself. For being in this position. For having to behave in a way that is ethically correct so he can salvage his view of himself as human.

"I'm not an idiot. Not at the moment." I would never say that in front of Wickman Delancy gasos in a lyreath. He doesn't appreciate my

humor "The new computer-" "The Ultra." I say impatiently. He does think of me as an idiot, but at least a human idiot,

'Ultra'i. Yes. It works line for a while, and then it comes up with answers that mostly make sense but that are a little off. It's hard to determine which parts are

"And Wickman is having me do the same calculations so be our find out when the computer's answers are correct and when they're not." Did he think I was completely unaware of what I'd been doing most of my life? "That's my job. Wick always uses me to verify new component and new software."

Delancy looks at the floor and shakes his head, "He's abandoned the computer entirely. He's using us-youto work through all the equations for the Pilerim's flight. Our-your-calculations are being programmed into the computer on the ship."

"I don't care if he recites them to monkeys," I say. "Now there's a har waiting for me."

He grabs my arm, stops me from turning away. "That shin must not be sent into space. The safety of the peopie on board depends on the Ultra4 and a reliable link

between it and the Pilerim's computer. Sometimes the fluid computer completely refuses to acknowledge the Pilgrim. What if that happens during the flight? I've tried to explain it to the agency, but Wickman tells them I'm exaggerating. They listen to him, not to me."

So you want the genius retard to tell them?" I laugh. Hysteria, honed by the loss of the red-coated silk, scrapes along the mokled walls. I shudder as a blue wave pulls the sound back through me.

"No. No." He releases me. "You have a gift." "Would you want it?"

'There's no person who can take your place, and the Ultra4 is just as specialized a computer. Even dividing the tasks among a dozen of the military's high-powered machines can't duplicate the Ultra, when it functions correctly. The company is building another, but it won't be ready until after all faunch windows are closed."

"So you'll help me run away." Delancy nock. "I'll get you enough NS so you don't

have to come back." "Not ever?" His naive ethics are moddening. He's going to rescue me and save the world. I relish the marvelous impossibility of it. "What about in between? Will

you take care of me while my tolerance level is too high for the . . . the NS to be effective?" Delancy bites the lower lip of his little bow mouth.

He hasn't thought this through. But I have He sags against the curved plastic, deflated, too tired to lie to either of us. During the past days of my captivity in the lab he wrote the maze of complicated equations on the markerboard, placed my other self at the entrance, encouraged me along the route to reach the cheese. For every unregistered day I worked during the last long session, so did he. He's earned the exhaustion. 'We must prevent the work from being completed, leave

the equations unsolved. Wickman cannot be allowed to play with people's lives." Is Delancy's concern exclusively for the crew of the Pilgrim, or does it include me?

"I'll figure out a way," Delancy says, "Dr. Wickman told me about that bar you go to. I'll meet you there. Tonight."

'Don't come too late." Poor Delancy. Enlisting me as his only ally. "I expect to line up some other entertainment for later on." I laugh at the sober way he accepts that. He doesn't have a clue what I mean.

"You will call me Amanda." I tell Delancy as he sits beside me. I push a throat-scorching drink at him and sin my Blast.

The round doctor squirms against cushioned plastic. The red and black lighting reacts violently to his patterned jacket, which delights the other patrons, ghostly white beneath the projected colors. A few of the males scowl. I had great fun reserving the chair for Delancy The rejected males are disappointed by the doctor's pudginess, having convinced themselves that only Adonis could succeed where they had failed. They will recover

Thank you for meeting me," Delancy darts a nervous

glance at the mixed crowd of laborers and tourists. At the crash-and-hum band thrashing in its acrylic cage. and almost chokes. At the naked bodies on the wallscreen, and almost faints. This is not his element.

Tve worked something out," he says, "The first opportunity to brunch the ship has already passed." His exhausted condition has increased since our conversation in the tunnel. He moves in quick twitches, tacked up on adrenaline and intrigue.

"The primary window," Anyone, even an idiot, who lives on an orbiting launch pad knows the jargon. Before hitting the har I viewed all the news reports since my last time out, working from a marker I set because I can't go by date. Plus an account of the asteroid dispute that went on longer than the dispute itself, a novel about a young woman who is self-destructive because ber father died when she was a child, and a collection of tolcrable contemporary sonnets.

Delancy recognizes my knowledge with a nod. 'If the secondary window is missed, the launch will be postponed indefinitely. The agency will conduct an inquiry, The severity of the problem will be discovered, and Dr. Wickman will be reprintended for actions that would have endangered the crew of the Pilgrim."

He grips the glass like salvation and leans close against the noise. "You can make Wickman miss the time line. You can slow his progress by not consenting to any more extended work sessions.

Simple. He thinks saving it makes it possible. I wish he would use my name. I wish he would look at me and see Amanda, "Now, Delancy, you must learn to nay more attention to what goes on around you. Without the"-I almost call it silk, but that's my private title for it-"neural suppressant, I'll sign anything. And with it I can't legally protest."

"At the end of your tolerance cycle I'll slip you a dose of NS. Then, when Dr. Wickman puts the consent form in front of you, you refuse to sign. All you have to do is pretend that you're still . . . well . . . " He blushes red

and black. "You know what I mean." Silk, as soon as my body can accept it. Guaranteed. No guessing how thick to make the red coating. No ache because time on the blue waves was stolen from me

The work slows down and I get silk on schedule. I sip my Blast, swallowing the gritty red rocks. There's noting extra hidden in them. It would be too soon, I simply drink Blasts all the time so the suit won't get suspicious. "And when we're successful, when the launch is cancelled, you'll continue to provide me with the NS." Delancy's eyes get very round. His mouth oscillates

between open and closed. Fish suddenly on sand, starying for oxygen despite the air around it. He wants to tell the truth. But the rat must believe in the reward at the end of the maze, or it won't bother. "Yes," he says. "Of course," He smiles with his lips, but the lie never reaches his puppy eyes. "I'll he ready at the end of your next tolerance cycle. I'm sure I can get a dose by then."

Behind the plastic barrier, streaked red and black, a thin young man in transparent briefs and a starburst slashed tank top throws his voice and body into a song Around him musicians pound out the accompaniment.
"I'm not going back," I sing to the band's clash in my
earlibe

"Next time," Delancy says. "I promise."

I take out the vibe and watch the singer's silent screaming. He throws himself to the stage floor and writhes in

Delancy stands to leave. I'm disappointed that he

Delancy stands to leave. I'm disappointed that he hasn't tasted his drink. I choose the noxious staff so carefully, an effort to get him aligned with the environment. "You'd hetter have a good story ready for the suit." I tell him. He doesn't understand. Used to privilege, he thinks being an ignorant genius will protect him. It hasn't done much for me.

The rohot server hums over with another drink. I with empty for full. The server's monitor displays the meaningless symbols of the tall. I take the prepared bills from my pocket. Press them into my palm until I feel the lump wrapped inside. Slide the packet into the slot. Whatever else happens, the actions, and the hope, are rart of my routine now.

I place the vibe back in my ear for mercy Isolation broken, the band is less ternfying to watch. Disjointed chords dance together. The hidden rhythm consumes. A man steps up to my table. Glass held crotch level, as is the style. Stave: romantic comeen vice. Practiced

A man steps up to my table. Glass held crotch level, as is the style. Suave, romantic comedy type. Practiced vulnerability in his slight smile. "Is your friend coming back?"

I shrug, "He ahandoned me." He sits down smoothly, weightlessly, "Maybe you

need a new friend."

The bar vibrates with neon butterflies. I collect them and hold them inside me, savoring the warm flutter of wines

Butterflies stir from sleep in a blue wave, a silky blue wave, scattering numbers. And I feel good. I feel so very soot.

Fluorescent glare bounces from the smeared markerboard. Delancy, marker in hand, grins, barely able to hide the triumph, bites his lip in warning.

Remember. Hold still and remember. Delancy came through on time. Silk flows effortlessly through my blood. Hock my eyes on the floor, chench fists against my chest. I know what I must do. I've seen the vids, those ternfale vals that show how numbers torment me. Numbers and the symbols for numbers.

I shove fingers in my mouth and gnaw on my nails.

Gently mck cently rock.

The sound of a door and footsteps flood into me. Wickman's footsteps.

"Is there a problem, Dr. Delancy?"
"She has become inattentive."

"Then you must get her attention back," Wickman says. I thought he only used that calm, mocking tone with me.

Delancy clunks the marker into a tray at the hottom edge of the board. "No need. The session is nearly over anyway."

Wickman hisses in a slow breath. He's used to being

cheyed. Used to others believing, as he does, that the project—whatever in happens to be at the encounci-situde of the printip. Of coarse you realize that the equition points working on is at a critical stage and cannot easily be dropped then picked up three days from now.¹ the reaches time a life drawer, pulls out a filmy piece of permapper and attaches it to his diplorant. He senatels as at with a pen then holds it not to Delawar, "I'm ware you agree, doctor, that the session must be extended." The prom saddeting has no sound except Welman's

voice.

"I've filled in the date and the time. Now that you are
officially her doctor of record the form requires your

signature."

Delancy controls the forms, he controls the silk! De-

ception is unnecessary. So why—?

Delancy stares at the paper, on the edge of comatose.

Lacream at him to laugh in Wick's face. But all is si-

Wickman's arm grows tired. "Come now, Dr. Delancy.

This is my project. You still work for me."

Delancy signs, presses his thumb against the filmy paper. I rock, rock. The room implodes with sound. We

paper. I rock, rock. The room impledes with sound. We cach take what power we can, in whatever suhversive forms we can. I hate Delancy for signing; I love him for the silk. Delancy shows the clipboard back at Wickman, Wick

smiles, satisfied with his power. See the clock? Wick says to me. "It's time to write your name on the paper." He forces the pen into my fits and slides the clipboard into my line of sight. Delancy's cowardice is written in plump letters above the line marked with an X that waits for my other name.

"No," I say.

Wickman staggers back as if deuseed with cold water. He stages his head, angry with himself for reacting. He steps close to me, cliphoard ready. See the numbers on the clock? he says soothingly. You always sign the paper at fifty-five minutes after the hour.

I follow his pointing finger to the digital readout on the wall. Rennants of numbers flicker in my head. I've watched a similar scene on vid. This one will have a different ending.

He swivels his pointing finger to me and taps my fist clenching the pen, a tap for each word. "Now it's time to sten."

"No."
"She refused, doctor Twice," Delancy says, rejoining

the living, "According to the articles of the Balbou Act—"
"don't need you to quote me the law," Wickman
shouts. He frowns and looks hack and forth between us1 nock and rock. Delancy stands so rigid I fear he'll shatter.

Wickman clutters the clipheard onto his desk and slowly forms his predator smile. "Take good care of your patient, Br. Delancy," Wick says and stalks from the lab. Delancy blanches. His eyelids twitch as if his spirit is using to leave again, but he hangs on.

Wickman knows. And is more dangerous because of

Delancy and I give one another furtive warning looks. A lighted square glows on a panel of squares. Camerus record our movements, so the celebration will have to wait. We go through the routine. He pretends to give me another dose of silk and I pretend to accept its influ-

Following my usual pattern, I leave the lab and go to while I costined as my other self. There is less volume than usual, which reaffirms the euphoria I've felt since the beginning of the silk. Delancy slipped the blue wave to me right at the end of my tolerance cycle. No rejection, No ache. A spoot transition into possamer folds.

There what I want. Delancy has what he wants. According to the recorded newscaster, the Piliprim missed its primary window due to "unforescen difficulties" with the Ultra-whatsit. The next launch date is given, incomprehensible to me. The newscaster describes it as "early within the secondary window."

Het the vid run, The reporter is handsome in a grantefaced way. Sculpted by an artist. Surgically perfect. And if Delancy and I manage to continue the charade

until that window closes too—then what?
"... experts have been added to the ship's crew in

case problems arise after the launch," says the screen image through the earvibe.

More people on Delancy's conscience.

Once the crew of the Pilgrim is safe, will be continue to stretch his humanitarian streak so that it touches me? In the subcheel public comminer area I devour Jung, Chekhow, Hesse, and a play in the new deltan style destined to remain obscure. Timy sounds float through me, whispered politeness, considerate isolation, shared respect. What does the suit do while I read?

Stronger in spirit, I wander to the bar, uncertain if I will slip a packet to the bartender.

Numbers tag symbols, then run away. Symbols melt to a blur. Silk rolls strong. Strong. I squint at the harsh light. Wickman watches me, arms folded across his chest. Delancy stutters over an equation. Tries again, Gets

Detaincy stutiers over an equation. Tries again. Gets mired in the gibberish and gives up. "Something wrong, Dr. Delancy?" Wickman asks, his eyes on me.

Delancy pinches the skin between his eyebrows. "I'm tired, I need a break." I must remember something. I hold still. Numbers

dance at the edge of my mind. I feel good. I feel good and the numbers scatter.

Delancy is flushed, perspiring. I stare at the floor

clench fists to my chest, rock back and forth. Back and forth, Wickman knows. A paper is already on the clipboard. Wickman picks it un from his desk, "I have a consent form for you to sign."

he says to me. "The same kind you always sign." A lie. I didn't sign it last time.

"Only there is one small difference." Delancy blots his sleeve against his forehead. Is the man sick?

"This one allows you to go on a trip. Remember, you

signed a paper so you could travel from Earth to here: This paper says you can go on another trip, to another place where you will live for a while."

I tuck my chin into my chest. Leave? Just when I'm making progress here. Delancy. The bartender. I rock faster, unable to slow myself. Is this a trick?

"And Dr. Delancy is going along to help you with your work."

Delsney doesn't look well enough to go anywhere.
"Come now," Wickman coos, taping me on the head

with a finger. "You'll have your exact same room—"
A vision of a phony window and phony photographs
makes me nauseous. He's pushing so Til break. I stare
and rock back and forth. Back and forth. I've seen the
vids. I know my other self. The square is lit. I'm being
recorded. A lead record.

"We'll just move your entire room to the ship—"
Ship, So Delancy and I are the experts mentioned in
the newscast. To act as backup in case the Ultra refuses
to talk to the Pilterim during flight. Astrophysicist and his

idiot savant lightning calculator.

"You'll like the *Pilgrim*. Lots of nice people will live there with you, and you'll have Dr. Delancy to take care of you. You count on the doctor to take care of you, don't you? And he counts on you to help him when he has a problem too differt to salve by himself."

Bastard. I hear you Wickman. Delancy is using me to save the *Pllgrim* because it means saving himself.

Bastards, "Watch; I'll have Dr. Delancy sign first." He presents the chipboard and pen to Delancy with a slight bow as if bestowing an award. Delancy grass his potential future in univering bands.

Blood rushes from his face, leaving him ghostly and wavering.

Wickman focuses on me. He's testing. Testing. Don't do it, Delancy, I scream through silence. Feel your power. Take control. Don't run the maze.

Delancy's plump fingers jüggle the pen across the paper. He presses his thumb into the sensitive rectangle. His puppy eyes full of self-pity. Self-loading, Defeat. Look to me with hope. I'm to save him when he didn't save himself. I can't tolerate stupid while I'm on silk. I can't stand self-pity and helplessness.

Wickman retrieves the diphoard and pen before they slip from Delancy's hands. "You see, your friend Dr. Delancy knows that this project is important and should not be halted because of one person's unfounded fears." He believes it. His work is the only oblikosophy be

knows, his only god, his only ethic.

He puts the clipboard in front of my stare, holds the pen out to me. But I've seen the vids. He made sure I saw the vids.

"No." I say. Wickman smiles without surprise. Delancy takes a prolonged breath, wipes his face with a corner of his lab coat. "Perhaps I didn't explain it clearly enough," Wickman says.

"It isn't time," I say. "The paper doesn't come until"— I have no numbers. I cross my arms tighter over my chest. Back and forth. Back and forth. I have no numbers. I'll betray myself, and my actions will be rolled invalid-"un-

til the clock says it's time." "And what time is that?" Wickman asks, waving the clinboard before my staring eyes.

"Doctor." Delancy puts a hand on Wickman's shoulder. Wickman turns sharply and knocks it aside. He doesn't like to be touched because it implies power. Because it's bow he shows me he's in control.

Delancy's fear is white on his cheeks, but he can tage victory and it makes him hold, "Dr. Wickman, you know that foreing an autistic patient to act outside of a set routine can trigger a violent episode." Delancy defleets Wick with eloctor talk. Reminding him I'm not a person with a name. I'm a patient with a named condition, incapable of acting without a given direction, incapublic of engineering my own maze. "It is now less than forty-five seconds until five minutes to the hour, when the consent form is usually presented to the patient.

Surely you can wait that lone " The numbers on the wall progress without me. Delancy smiles at the clock. "There. Now everything is in I blink and focus on the paper. Wickman slides the

nen into my fist

Corefully, mutinely. I write the terrible words my parents gave my other self before they turned me over to the feds. Precisely on the line with the X at the beginnine forming each letter as I do every time I write those words. Then I press my right thumb against the heatsensitive rectangle beside the name, as I always do after I write those words

Delancy stands bleached and trembling, eyes staring. mouth opening and closing without a sound

Wickman takes the document and pen. I expect a eleat but his face is soher. He touches a lighted square. It turns dark. The cameras have stopped.

"It isn't legal," Delancy whispers, "She's on NS, I gave it to her myself.

'Come now. Dr. Delancy. You must focus on the greater good. The Pilorim's flight benefits all humankind." Wickman doesn't look at his colleague. He files the permapaper consent form and begins making notations as he always does at the end of a session. "I'm not coming back " I say.

"Of course " Wick says 4



My Amazing Stories

Julius Schwartz with Elliot S. Maggin

The editor of Amazing Stories leaned back in his chair and, for reasons only be knew then and only God knows now, shared what must have been terribly private thoughts with a tecraged boy who could not possibly have understood the subtleties of so ancient a mind.

"Space travel can't work, you know," he told me.

Old men like T. O'Conor Sloane alladed like that all the time back then. It was about 1954. Allow flowers who had use an eccornia dibert finetein was an eccuring dispersion of the control of the contro

And he was buying them, despite his old man's cynicism. He was the editor of a magazine called *Amazing Stories*, and he was intimating that

he just didn't buy off on the magic I was a literary agent for science fiction writers. It was my job, along with that of my friend Mont Weisinger, to figure out who among the dozens of established writers whose work we read we would try to sell. I made these decisions on the basis of my personal taste—a family with first literary agent for science fletion writers, and had I known then the kind of influences my captricious de-

Memoirs of a Time Traveller Part 1

cisions would have on the condition of the collective sense of wonder of the generations to succeed me, I would have studied harder; would have spent more effort reasoning; would at the very least have gotten a lot less work done. But there was not much chance

of my understanding the implications of what my friends, my elients, my fellow fans and I were building in those days: I had T. O'Conor Sloane to bust any bubbles that might have the tennerity to peck out from under the brim of my eso.

It is erenarkable and delightful to not to offer my members to Annazing Stories, because it was this very magazine that woke me up to my life's work. The very day it happened sits in my memory like the hunp that sit in my throat when I think of it. It swa when I was thirecen—in the summer of 1928, the last year of Anneficat's innocence—that my friend Charlie Whelm bulled me out of a boried

rainy, penniless afternoon.

My problem this afternoon was
that I had nothing left to read. You
bought magazines in little Mom-andPop shops in those days. Mine was
at 187th Street and Webster Avenue
a block and a half from The Bronx
annument where we lived. It had all

the standard candy store stuff: bubble gum in paper wrappers, big glass aporthecary jars containing long strings of licorier you could buy by the foot, a soda fountain where you could get an egg cream where they spetized the syrup around with selfect unstead of string it so it came out just right, and a wall full of magazines that trached un to the sky.

Canter and sports stories about Frank and Dick Merried. Dime novels were fifteen cens then, and I was penniless. I had a for of books and magazines Charlie hadn't read: be find a for that I hadn't read. We went through each other's stashes and what caught my eye was the cover of a two-year-old issue—June of 1926—of a magazine of which I had never heard before called Amazing.

Hoved the nanethack dime nov-

els, mostly detective fiction like Nick

The cover illustration was signed simply "Ball", and it featured a gain sea seppent rising out of the sea to loom over three men on a raft. It accompanied the second installment of A feature to the Center of the Earlier blue was a letter to the celtor inside the magazine from someone bubbling over a previously published verne story referring to the nine.

The Pioneers



Hugo Gernsback, the first editor of Amazing Stories [1926–1929]

teenth century French science fiction pioneer as a "promising new writer." The installment cried out for an illustration like Paul's. In the course of describing the scene with the serpent, Verne actually apologized to the reader for not being able sufficiently to convey the desperation of the moment.

I read that issue of Amazing Stories cover to cover, it had an old story inside by Verne's old rival H. G. Wells called "The Star," as well as pieces by G. Peyton Wertenbaker, Oits Adelbert Riine and Charles W wolfe. The story that hooked me, though, was "The Runnway Skyseraper" by Murray Leinster, whose opening line sucked me right in:

> The whole thing started when the clock on the Metropolitan Tower began to run backwards.

Inet Murray Leinster many years inter and found that he was really Will Jenkins, a writer for slick magnitus like Coller's and the starration like Coller's and the starration possion for science feature and a passion for science feature and a passion for science feature and the couldn't afford for his more reputable chems-the cledies of those delices of those side chems-the cledies of those side chems-the chems of the solid like and the start of the science of the solid like and the science of the science and the science of stories a month, my best trick was a first a mouth, my best trick was a first a month, my best trick was a first and the science of the

namative hook that goosed a writer into telling an intriguing story which sucked a reader into involving himself in it. Here's a narrative hook for you:

"It was the best of times: it was the worst of times." I came up with a few good ones, too. In comics I used my covers to do it. There was a comic book showing a stark closers of the Flash holding up a hand and shouting, "STOP! DON'T PASS UP THIS MAGAZINE MY HEE DEPENDS ON DY Another cover portraved a giant gorilla enashine his teeth and holding up an empty Flash costume. There was a cover of Superman that showed the hero running headlong at the reader with the right side of his body normal and his left side bubbling and melting along with the title: "Man of Molten Steel." That's the way they worked. As often as not I would have the hook or a cover before a writer had a story. If an idea confounded a writer enough to make him sweat, then the story that came out had to be good.

Most of the material in that issue of Amazing Stories was reprinted from classic stories or from other less specialized maguzines. Hardly amyone was writing science fiction at the time; the field was not lucrative enough. So all of a sudden I had found an esocietic field about which found an esocietic field about which.

I could know virtually everything and hardly anyone else knew anything. Histor Gernshack was the onginal



 T. O'Conor Sloane, Gernsback's successor, who believed space flight was impossible



Frank R. Paul, the dean of sciencefiction illustrators

cellitor of Amazing Stories when it made is debut with the April 1926 issue. Three years later he left to start a magazine called Science Worder Stories. Both magazines had codomis smooncoing the formation cellums amounting the formation celles around the country. In 1931 it was just past my sixteenth birthday when I found a club called The Sciencers, which met on Moshoku Parkway in The Bronx at what turned out to be the home of one

Mort was a lovable kind of kid who had an easy way of making friends. I walked a couple of miles across The Bronx because I didn't have trolley fare and showed up for the meeting in the basement of the house where Mort and his parents lived. As I started down the steps he doe'l was stampeded by a dozen

The Scienceers



Members of the group in 1931 included (front row, from left) Arthur J. Berkowitz, Lester Blum, Leo Schubert, David Stark; (middle row) Herbert Smith, Philip Rosenblatt, Allen Glasser, Mort Weisinger; (back row) Arthur Erreger, William B. Sykora, Julius Schwartz, [unidentified], and islidore Manson.

or so other kids tripping over themselves to get out. It almost marked the dissolution of The Scienceers because of Mort's creative bookkeeping

"Well." Most explained to me, "we you ten cents these such meeting, y'know, for expenses and to put out a cloth builten collect The Planet, and announced that there was zero day lars and zero cents in the treasury. I explained that I saw some science fiction magazines and I bought fection magazines and I bought ceiling—"and I went to the movies and I spent the money on a date. I told them I was going to replace it but they got so mad they all stoemed but they got so mad they all stoemed

I was the friend who stayed. We met that day when we were sixteen and stayed friends until Mort died almost fifty years later.

In due time we reorganized, but meanwhile Mort and I became close friends. We pored over every issue of Amazing Stories, Wonder Stories, Astounding Stories, practically memorized them, tried to stump each other about their contents. The way it worked was that Mort and I would send each other penny postcards with questions, and we had to be honest and answer them if we could without looking up the answers. He would say, "What is the caption under the illustration for 'The Moon Pool by A. Merritt?" I would send him back a card with the answer and ask, "What's the last line of The Skylark of Space?" and so forth.

We had heard about people who ing more than discussing the stories

memorized the telephone book. We knew there were scribes who made their livings by memorizing and transcribing the Pentateuch on parchment scrolls. We knew it was possible. Why it was desirable we had no idea, but I can't recall any-

one ever asking us why we memorized entire issues of Amazing Stories. The reason was probably because we were sixteen and no one else had done it.

I always looked at the 'Coming Next Issue' section in any magazine first—still do, with TV Guide, traviling for thirties movies on television. It's a way of foretelling the future. When The Scienceers re-formed, Mort and I made a case to the group that we should be interested in do-

The Wordsmiths



ful physician who also became one of the most popular writers in the early days of science fiction



Edward E. ("Doc") Smith, author of The Skylark of Space and other classics



15 in 1932, the "scientifilm" editor of the first SF fan magazine

in the magazines we devoured We wanted to know how they came about; we wanted to know how they came about; we wanted to know more about; we wanted to know more about; the wides, the editions and 8-husrators. We resolved to find out what was coming up need; what these islots of ours were working on. We decided to compile a Wook Who of contemporary science faction for cour of the bulletin. We wanted to see into the future, so we sent out letters. We see it seek of exclusives in asserts.

The first came from E. E. "Doc" Smith; from Dr. David H. Keller, our favorite writer; from several prominent professionals who didn't have the sophistication at the time to hire agents to tell them not to write anything for free. Late in 1931 I typed up a one-page

Late in 1931 types up a one-page biography of Edward Elimer ("Doe") Smith and it got Mort all excited. We looked at each other like Mickey Rooney and Judy Garland and instead of "a show," we said, "Let's put on a fan magazines!" I wish I had that 'Doe' Smith piece now Mort and I together started the first fan magazine about science fetton.

which I was inspired to call *The Time Traveller*. I had just read H. G.
Wells's *The Time Machine* and I was
steeped in Briticisms, so I insisted
on spelling the title with two L's.
The first "fanzing"—it was dated

lanuary, 1932-consisted of six mimenormhed puges, and we sold it for a dime twelve issues for a dolfar. That was where we roosted our gossip. At sixteen, neither of us had the confidence to call himself the editor, so we shanghated a fellow Scienceer whose claim to fame was an extensive array of letters published in pulp magazines. Allen Glasser was not only the editor of our club bulletin-be was also a pro. He had sold a story to Amazing called "Across the Ages." We rounded up several other of the better known fans of the day to supply us with news and gossip. Among them was fifteen-years-young Forrest I Ackennan, our "scientifilm" editor from Hollywood who years later coined the term "sci-fi-

We allocated editorial responsibilities easily enough. Everyone contributed whatever information he had that month. Then Glasser stencilled the first two pages, I did the next two, and Mort took care of the last two. The first issue contained the first installment of "The History of Science Fiction." What we did not realize at the time was that its history was actually about to begin.

The reason The Time Traveller worked as well as it did as a means of getting fans in touch with other fans was because we published the full addresses of our letter writers. I did the same thing thirty years later as a comic book editor when I printed correspondents' addresses in my letters columns. All over the country. in small ways, an organism began to come together. People interested in each other's points of view would write to one another. They compared notes. They introduced friends. They shared gossip. They bounced around ideas. Science fiction and science Action fundom began to take on the dimensions of a community much as scientists themselves have done over the centuries. When people of similar interests share ideas, movements grow. In our case, the Earth moved slowly, imperceptibly, over a lifetime.

So did it come to pass that science fiction fination, and later on that of comic books, attracted the people with the biggest mouths on Earth. That applies to me as much as it does to anyone. Unarguably, we put together a new body of ideas Whatever becomes in the unborn contuines of the speculations to which I contilized, the founding of that organism, will be the achievement of which I am most proud.

We started with about thirty subscriptions. After two mimeographed issues Mort and I hannened upon a subscriber named Conrad H. Runpert who had the equipment to set type by hand and print it in a professional manner. With his help The Time Transller evolved into a betterlooking product we called Science Fiction Digest and eventually Fantasy Manazine. The most exciting thing we put into the magazine was a series of stories called Courtos the longest "round robin" story ever published, with contributions from the most prominent science fiction. writers of the time. A. Merritt, Orto-Binder, "Doc" Smith, Ralph Milne Farley, Dr. David H. Keller and John W. Campbell were among the writers who wrote chapters before I dumped the mess into Edmond Hamilton's lap to wrap it up in the seventeenth installment. Cosmos soanned the transition from Science Fiction Digest to Fantasy Magazine, stretching from the July 1933 issue of the former to the October/November 1934 issue of the latter

I had a habit of seeking out science fiction stories in magazines other than the regular science fiction publications like Amazing. They showed up here and there in the weekly pulp magazine Argoy, under the label of "A Different Story." I let my correspondents and friends know that I was interested in huying copies of such stories.

One day a fellow Scienceer showed me a story in the April 1929 issue of a magazine called Munsey's called "The Heat Wave" by M. Ryan and R. Ord.



at the first SF Worldcon

"Are you sure it's science fiction?"

I asked him, and he said, "Check it out," which I did...
... and my face slowly, painfully.

The story read, word for word for the most part, the same as "Acres the Ages," Allen Glasser's story in the August 1933 Amazing Stories, who all the August 1934 Amazing Stories, why friend Allen was a ploggarist, but be couldn't help trying to improve on the original. I remember the last lite of the original shrong's story; the stared at her with horror in his eyes." Allen changed it to "He stared on her with dawning horror in his eyes." It was a Blerance cinne and the start of the stared on her with dawning horror in his eyes." It was a Blerance cinne and the start of t

had to report it.

Mort and I had this habit of running up to the Manhattan offices of

Amazing Stories at 222 West 39th

Street and talking to the editor about
what would show up in future issues. The editor was Dr. T. O'Conor

Sloane, a prominent inventor and

resident great gray eminence.

Thomas O'Conor Sloane was born on November 24, 1851, which wasn't such a big deal at the time, but when lornided now whom he talked to, how he lived, and the fact, for example, that today I write these words on a word processor and submit them instantly by someone across a continent by fax, my third kad's continent by fax, my thord kad's continent by fax, my thord kad's again. Sloane went to St. Francel sagin. Sloane went to St. Francel sayin. Sloane went for St. Francel sayin. Sloane say sayin. Sloane sayin. Sl

ral Sciences at Seton Hall College for a time in the late nineteenth century He invented a piece of equipment called a self-recording photometer which was the first device to record mechanically the illuminative power of oas; and in 1877 he designed a new method of determining the sulphur content of illuminating one. He had been on the staff of a number of magazines including Sanitary Plumber and Engineer Everyday Engineering, Practical Flectrics Youth's Companion and Scientific American Now, about to turn 83, he was editor of Amazing Stories with a placard on his desk with a line from Old Man River that said, "I'm tired of living and 'feared of dving.'

Dr. Sloane was the man to whom we went when we expected Allen Glasser. Allen published no more science fiction stocks, and Mort and I published no more Time Traveller from that point Glasser published one more issue on his own, but Mort and I moved on to Science Fiction Divest.

We felt badly, hu Dr. sleene second to like me quite a bit after that—at least he suffered me more readily. He gave me advance copies of the majorizm ewhenever I came to see him. I would sit in the subway on the way beek to The Brenx contratessays holding up next mendal for all the world not no notice. Little did my fellow stripplangers know that among them was someone who, without any effort or fuss, was

a time traveller reading the future. Here were Mort and I, in touch with most of the writers and editors of all the science fiction mags in the explored Universe. I knew the people who published not only Amazing Stories but Worder Stories and Astonating Stories as well. It made sense for us to make some connec-

tions among them.

Once in a while Dr. Stoane or F.
Orlin Tremaine, the editor of Astanuling, or once of their colleagues,
would say something like, "I wish I I
mad a 4,000-word time travel story
for the hole in next month's issue,"
and with a heavy sigh he would
tackle the pile of unsolicited manuscripts that have our on his desk

Mort said, "Julie, the writers don't know what these editors need." "What do you mean?" I asked

him. "I mean, these guys sit at their

typewriters churning out stuff blind as bats, hoping somebody will pick up on them."
"SO—?"
"Thus paged an amont." Most said.

"They need an agent," Mort said, and the subject took on a life of its

We were kids, not yet out of our teens, when Mort and I put together an agency we called Solar Sales Service and decided to set the world on fire. We sent letters to every science fiction writer whose address we could die up and said that we had:

. .. made an extensive survey of the entire science fiction field, through a series of talks with the various editors, and as a result we are firmly convinced that fantasy fiction is due for a remissance.

We went through the general needs, as far as we could determine, of each of the publications whose editors we had talked to, and:

> As for our terms, they are extremely reasonable. We ask only that all stories sent us be accompanied with a dollar sakes service fee. This fee is waived just as soon as we sell three stories for a client. Of course, we ask the usual ten percent commission on all American sales. 15% on English sales.

... and we followed that with glowing recommendations we had solicited from Sloane, Charlie Hornig of Wonder Storkes and several of the other professionals with whom we

had had contact.

Dr. Stoane, Hornig, Tremaine,
Dr. Stoane, Hornig, Tremaine,
Gernsback and the other editors realized that it was to their advantage to
read anything we submitted to them
without dropping it in the slush pile
because they knew that (1) we knew
what they wanted and (2) anything
thee got from us was written hy a

professional.

Practically right out of the box we

got a package from Edmond Hamilton, a well-known writer from New Castle, Pennsylvania, dozens of whose stories we had read and enjoyed. Talk ahout seeing into the futurel We would be the first people to read the works of our favorite

joyed. Talk ahout seeing into the future! We would be the first people to read the works of our favorite writers! The 7,000-word story was called "Master of the Genes," and it came with a dollar bill folded up inside it our first reading fee.

side is our first reading feet. Most and I opened the envelope together, all exched about the unread tongsther, all exched about the unread tong inside, and looked at the deltar bill. Then I looked at bloot the deltar bill. Then I looked at bloot out laughing, for years wer bad paid to read Hamilton's stocies and now hewap paying as a dollar to have us read a new one? We sent the dollar back, along with the news that Wood der Stories had accepted the story for thirty-five dollars, 1/2 certa would. With out ten percent commission, that means! Most and I each took that the means! Most and I each took the means! Most and I each to

In not a very long time Solar Sales Service's client list included Hamilton, Dr. Keller, H. P. Lovecraft. Manly Wade Wellman, John Russell Feam, Otto Bander, Henry Kuttner. Stanley G. Weinbaum. Robert Bloch. Alfred Bester, Eric Frank Russell, and Leigh Brackett. It also included my first "discovery." a young paperboy from Los Angeles named Ray Bradbury who in 1939 bused across the country to attend the First World Sciance Fiction Convention and meet me, confident that "One look at my sunburst face would blind Julie, that his talent would overwhelm me and that we would fall be famous

together." We were on our way. Where? We had no idea. All we knew was that the noce we rubbed elhows with the guys who made the story decisions, the better our agency would do. That was what brought me to that big chair in the office on West.

39th Street opposite that hig little old man.
"It just seems so . . . silly, doesn't it?" Dr. Sloane asked me when he leaned back in his chair to wax

philosophic that day.

I didn't get what he meant.

Here he was, he explained, an inventor of serious scientific devices.

and contributor to serious scientific journals, editing and publishing stonies about ships flying to other planets and such nonsense.

"Mankind will never able to travel into space," the estimable edi-

travel into space," the estimable e tor of *Amazing Stories* told me. "Why not?" I was incredulous.

"Why not?" I was meredulous.
"It's scientifically impossible," he
said and gently, indulgently, like a
master explaining to a puppy where
to leave his by-products, he explained why.

I was nineteen at the time, ambitious and headstrong, and I had gone through years of positive reinforcement in my schooling that convinced me beyond the ghost of a doubt that I wasn't an idiot. But this man was, after all, an entry in Wbo's Wbo. I keept feeling I ought to have been more impressed with his.

"Wasn't there some scientist," I asked him, "sometime in the mich nineteenth century who proved mathematically that a heavler-thanair machine could not possibly fly?" "Oh, don't be such a hog," the

old man admonished me, clearly intimating that a boy was precisely all he wanted me to be. My mind chamed over one rationale after another, and in defense

the old man just tossed me one pitying look after another as easily as blowing a kiss. "Someday," he assured me, "you'll understand." Soon I'll be as old as Sloane was at the time. I still don't understand.

what he was getting at.
He was educated, prominent, and extraordinarily qualified for virtually any lineary vocation. I respected him, I still do, mostly. Science fliction in those days consisted of speculations on space travel, arthral life, went concepts that were closer to were consistent with minds and such other contemporary subjects today.

Despite the prejudices with which his provincial nineteenth-century education hobbled him, that old man should have known better. I try to.

Next: "The Bester Years of My Life," in the July issue of AMAZING" Stories

SF the British Way

James Gunn

1

The road to today's science fiction has been long strange and wonderful. It started in ancient times as a way to reach other lands or other worlds where the life or the way it was lived was different. Ancient storytellers built it as a means of traveling to imaginary places beyond the limits of experience: Hyperbores, the Fortunate Isles, Panchaia Ismans and the moon. Another destination pioneered by Plato's "The Republic." ness the ideal enciety the utonia The Industrial Revolution broadened the mod and made its destinations seem achievable in the real world. Change became reality, and the response of writers to that reality created the literature of change, science

fiction. John W. Campbell, the editor of Astounding Science Fiction who presided over what Americans called the Golden Age of science fiction, once said. 'Fiction is only dreams written out; science fiction consists of the hones and dreams and fears (for some dreams are nightmares) of a technically based society," The dreams of science fiction became a genre primarily through the American SE magazines, which brought together the enthusiasm and the ideas of the people who read and wrote and edited and published science fiction and let them work out a vocabulary, a set of literary conventions, a shared world of expectations, and their hopes and fears for the future.

But not all societies develop their technical bases at the same rate, and the experience of change differs from nation to nation. These people's dreams, too, will not be quite the same. Great Britain, for instance, was there at the beginning and contributed mightily to the shaping of the senne, but to American readers. Britserne, but to American readers. British science fiction always seemed perceptibly different.

perceptibly different.

To the British, too. Brian W. Aldiss, one of Britain's greatest SF authors as well as its most distinguished theorist in Billion Year Spree and its recent revision with David Wingrowe, said in Trillion Year Spree about Gregory Benford's Timescape, 'It is a dark,

pessimistic work, almost, one might say, British in its preoccupations." That difference is what this essay intends to explore

7

Science fiction out started in Britain and France, the birthelaces of the Industrial Revolution, Brian W. Aldiss dates the beginning from Mary Shelloy's 1818 Frankoustoin and bulieves that SF continues in the Gothic (or post/Gothic) mode. Not all American readers share Aldise's view of SE's origins, finding the Gothic elements of Frankenstein-the sense of sacrilege, the broading shadow of the supernatural, the feeling of traditional patterns being worked out-at war with its exploration of new seientific possibilities. Aldiss points out that Frankenstein marks the birth of a modern attitude when the Doctor turns from the old masters of alchemy to science, but he also becomes the prototype for the mad scientist not so much for his blasphemy in daring to create life but because, unlike a man of science, he shrinks from what he has created because he thinks it is unly

After contributions to the literature of change from American authors Edgar Allan Poe and Nathantel Hawthorne and the frish-born American immigrant Fizz-James O Brien, Jules Verne indisputably got SF going with is progress extraordinaire, in spite of the fact that they were placed in the present and mostly speculated

about improvements in technologies already in existence. No such qualifications are necessary about the work of 1: 6. Wells. Note than any other water, Wells created modern science with the caused modern science significant thems. Where Verne significant thems. Where Verne special places with his submarines and cannon shells. Wells explored ideasy adventue provided a structure on which to hang occasional speciations. but ideas created the senne.

The British experience gets its characteristic flavor and direction from the Wells of 1894, when he first began publishing his "single sitting stories of science," to 1904, when he published "The Land Ironclads" and the first of his propaganda novels. The Food of the Gods. The Wells of The Time Machine. The Island of Dr. Moreau. The War of the Worlds When the Sleeper Wakes, and The First Men in the Moon gave science fiction, and British SF, what Damon Knight has called 'the mood of nessimistic irony" that much of American SF has lacked

3

Popular magazines were an essential Ingredient in the evolution of science fiction, and the first of these was The Strand, created in London in 1891 by George Newnes, ten years after he had founded Tit-Bits, a nonular compendium of short items and climines from a variety of sources. Competitors soon appeared: The Ludvate Montbly, The Pall Mall Magazine, The Idler. . . . Comparable publications on the American side of the ocean were McChire's and Munsey's. When they demonstrated the visibility of cheaper publications in the mass market, such older quality magazines as Peterson's Manazine and

Cosmotolitan reduced their prices

and adjusted their contents.

In the U. S., however, the most important development for science fiction was the creation of the pulpadventure magazine in 1896 when Frank Munsey, who had come to New York from Maine to make his fortune, converted his boys' magarine Amore (horn as Golden Amore) into "192 pages of fiction for a dime." It too would inseite such competitors as The Popular Manazine The People's Manazine and Bluebook and Munsey would respond with All-Story and Cavalier. In this medium American science fiction would develon first in scattered examples of adventure stories against a background of change rather than that of the Wild West, the Civil War, the Orient, or one of the other exotic milieus for exciting conflict, and finally, with the invention of the category pulp, which eathered together stories of the same type into a single magazine, in the 1976 Annazina Stories followed by Wonder Stories in 1929 and Astounding Stories of Super Science in 1930.

Britain had no such oulo magazines and, of course, no adult sciencefiction magazines either (Scoots, a weekly boy's SF magazine published 20 issues in 1934) until Walter Gillings, editor of The British Scientifiction Fantasy Review edited Tales of Wonder, which published 16 issues between 1937 and 1942. Fentesy another Walter Gillings magazine was published in 1946-47 (an earlier magazine with the same name was pulslished by Newnes in 1938-39), E. I. "Ted" Carnell edited New Worlds from 1946-47 and from 1949-64 (it you the news own of the Science Fiction Association from 1937-40) before it was sold and Michael Moorcock turned it into what Aldiss called the 'pirate ship' of the New Wave. Science Fantasy was edited by Walter Gillings for two issues and then by Carnell from 1950-64 Between 1949 and 1954 the British magazines had to compete with reprint editions of half a dozen U. S. pulps, including the British edition of Astounding.

In the U. S., on the other hand, as Befan Stableford describes in Scienific Romance in Britan 1890–1950, "the marketing of popular fiction in the U.S. clearly reflected the more aggressive entrepreneurialism of American marketing in general." Hugo Gernsbeck the Lussembourg immigrant who founded Amerzug Steries as the successor to a series of popular-science magazines, in recent years has been blamed by European SF writers for most of what they think is wrong with American SF. Addiss, in Trifloor Year Sprey, called hum 'one of the worst dissests ever

to bit the science fiction field." The establishment of magazines which specialized in SF alone-exchiding all else-institutionalized the division between highbrow and lowbrow." Aldiss commented, "Such classification, never openly acknowledged, led eventually to some prodigies; but for a short period it debased the oroduct by agreeding to an ardent and uncritical readership: while in the long run it induced an 'SF obetto' mentality from which both readers and writers still scheme to escape (or imagine they have escined).* Nevertheless, it is difficult to Imagine how science fiction would have grown to its present state of popularity, opportunity, multiplicity, and fecundity without a period of intense cultivation in "the science. fiction ghetto." This is not to say that all this happened without cost, nor that the present condition of SE is

Gernsback's critics may envisee a readual embiferation of the kind of fiction relatively unsegregated from the mainstream such as Wells was writing in his first ten years, but Wells himself alxandoned that kind of fiction in 1904 and few others picked it up because, Stableford believes, the conditions in Britain were unfavorable. He pointed out: "The decline in fashion which affected scientific romance after 1905 continused until the outbreak of the Great War, and then was further emphasised by changes in the literary marketolace that were encouraged by the disruptive economic effects of the war."

ideal

Moreover, the scientific romance was not considered mainstream fiction, even in Britain. 'Such tales always have to overcome a certain generic disreputability before they can be applauded,' Scableford has observed "and it is almost always as orceptions that they win respectability. Even the authors themselves, including Wells, looked back upon their early ventures into fantastic fiction ("scientific romance is, in the main, a young man's genre," Stableford

comments) as youthful indiscretions. The flaurs in Gernyback's own figtion are easy enough to deride, but then Gernsback was an inventor and a businessman, not a writer. His vision and entrepreneurial parache (Aldiss praises Gernshack's initiative energy, and coursee) are what lie behind Sam Moskowitz's description of him in Explorers of the Infinite as "the father of science fiction." Moreover. Amazina did not restrict itself to Gernsbackian catalogs of future inventions or futuristic adventures. It reprinted almost all of Wells's scientific monances as well as most of Poeand Verne. Gernsback also opened up for a generation of writers, such as lack Williamson, the concept of authorship and a life in science fiction. And Gernsback provided the model for the Clayton Astounding Stories of Super Science, which, when it was sold in 1933 to Street & Smith. came under the shaping editorship of John W. Campbell in 1937

All these things might have hapnened without Gernsback, possibly even without what Aldiss calls the "deadenine literalism" created by Gemshadd's emphasis on the need for scientific accuracy, but that eventuality is not at all certain. Amazing Stories came along late in the age of category pulps, and only a few years before the beginning of the hero onless And it is promuble that Amazing emerged not from the pulp tradition but the popular-science tradition, and that this not only set the SF magazines apart in spirit but in fact was the reason they survived the general demise of the oulos in the 1950s and 1960s.

A reasonable assumption is that the genre of science fiction would not have evolved in Briatin, which apparently needed the example of the American magazines to inspire is own, and without the magazines a great many writers would never have been heard. Beginning witers need a place to get published and to develon. To start as a novelist may

not only be considerably more difficult: for some it may be impossible And SE which may be at its best in the shorter lengths, would be con-

siderably poorer. In spite of the criticisms of the wrong turning taken by the scientific romance when Gernshack founded Amazina, many prominent British writers (including Aldiss) trace their earliest conversion to SE to the American magazines imported to Britain in the 1930s as (according to legend) ballast and sold at the local Woolworth's under the heading of "Yank Mass." In fact. Arthur C. Clarke wrote a 1989 memoir titled Astounding Days focused on his

reading of one of those magazines.

Other conditions than the scarcity of magazines contributed to the differences in British SF. The success of the Prussian forces in the Franco-Prussian War of 1870, for instance, resulted in a rish of cautionary stories about the lack of British preparedness: Lieutenant-Colonel Sir George Tomkyns Chesney's "The Battle of Dorking" in 1871 was the first and Wells's 1898 The War of the Worlds which shifted its focus to the lack of buman preparedness, was the most prominent SE example

The 20th century, as well, treated Britain and the United States far differently. World War I, for instance was a shattering experience for Britain not only in loss of life but in its loss of faith in progress and British destiny, "The United States was the only real winner of the war." Stableford writes, "enjoying an economic boom throughout the 1920s while Europe was in economic decline. . . . Modern technology really did seem to be bringing about a social metamorphosis in the USA, while Britain remained mired in economic chaos. seemingly abandoned by progress. It is hardly surprising that speculative

fiction began to boom in America producing a kind of science fiction which rejoiced in the limitless opportunities of futuristic adventure and looked forward to a plethora of new inventions, while the British public remained unmoved and unreceptive."

As an example. Stableford points out the interplanetary fiction that was a subspecies of the scientific romance became irrelevant in Britain between the wars, while in America it became increasingly important. America has always been perceived as a place for new beginnings, first for religious freedom, later for economic occortunity, and between the two the frontier beckmed as the ultimate alternative to stagnation and despair. As far back as De Tocqueville, a series of foreign observers have commented on American belief in the progress of the human spirit. One 19th century American said, "We are always expecting an improvement to be found in everything."

Walls called the years between the wars an "Ane of Enstration" for Britain, and they produced, according to Stableford, "an anxious and often embittered kind of fiction, in which the world of the future loomed. as a nightmarish threat far more frequently than it beckoned as a wonderland of opportunity." This kind of speculative fiction, he points out, was not at all like the American SF of the late 1920s, and "it is safe to say that for the entire period between the two world were British scientific romance and American science fiction

..... were poles apart, with only a tiny measure of overlap between their theme and methods." This period, it might be noted, included the first years of the American Golden Age.

"In the wake of the Great War. Stableford believes, "the British intellinentsia bad become very susniclous of the idea of progress." He summed up: "One may comolain of early American science fiction that its authors wrote very couldly, and took no account of contemporary speculative thought regarding the advancement of science and the developing pattern of social change: but one might argue also that British scientific romance remained a little too dependent on such contemporary discussion, and was overly con-

strained by its anxieties." The Depression that began in the II. S. with the stock-market crash of 1929 and raised serious doubts about the American political and social fab. ric as well as American faith in procress spread rapidly to Europe and may have hit harder there. Even earlier. Stableford notes, the U.S. had "nothing to compare with the British Labour Party's ascent to power in

1924 or the General Strike of 1926."

World War II started for Britain more than two years before American entry, and England hore the brunt not only of the early defeats that culminated with the evacuation of Dunkirk but the threat of invasion and the bombings. In spite of the attack on Pearl Harbor and early Jananese military successes. America never seriously entertained the possibility and the consequences of losing the war, and though its casualties were high, never suffered the same kind of losses, psychological as well as physical.





Even the atom bomb looked different from the other side of the Atlantic From the British viewpoint. Stableford writes, "Although the atom bomb was in the hands of an ally, it was still in other hands, and there was a long-standing anxiety in the land whose flames only needed a little fanning to make them flare up to apocalyptic magnitude."

Stableford cites other factors that influenced a separate direction for the development of British and American SF. Middlebrow literature-to which science fiction traditionally belongs -developed late in Britain, Before 1890 highbrow literature was controlled by lending libraries, which had grown up because of the high price of "respectable" novels and their customary publication in three volumes. The lending libraries took such a large proportion of publisher print runs that they could conspire with the publishers to keep prices high.

Between those and the penny dreadfuls and the two-penny novelettes was "a wide gap of price and prestige," Even Dickens could not bridge it successfully. After 1890 'a host of new periodicals, ranging from tabloid weeklies to plush illustrated monthlies . . . using short stones and short serial novels in abundance," filled the middlebrow gap. But the opportunities for new writers in The Strand and its competitors that Wells found so congenial faded ofter little more than a decade, "For a few brief years . . , scientific romance was fashionable as the new periodicals went through their experimental phase. That period began in 1893, reached its height around

1898, and had petered out by 1905." Wells's abandonment of the scientific romance for the propaganda novel may have been encouraged by the

dwindling market. Later, while H. S. nanerback publishers began to compete with and eventually supplant the pulp magazines. Britain's paperback scene was dominated by a single publisher, Penguin, that had no need to get involved with such unconventional material as science fiction, Stableford recounts. Aldiss recalls, however, that after 1960 Penguin was publishing John Christopher, John Wyndham, and John Blackburn with such success that Aldiss was bired as Pennuin SF editor. After the war "the more downmarket British paperback puhlishers enjoyed a spectacular boom," Stableford wrote, and when they ventured into science fiction ("it wasironically-in Britain rather than in America that paperback publishers first began to issue substantial science fiction lines") they imitated the U.S. "working writer who special-

Judging from the list of publications in I. F. Clarke's bibliography Tale of the Future, the pattern of Britfrom 1895 (the publication of Wells's The Time Machine) to 1970 (the last date in Clarke's study) is one of modest ups and downs until 1951, when the same postwar boom that his American publishing also affected Britain, Mike Ashley in The Best of Betrick SE (1977) called the 1950s. Britain's Golden Age: "the decade of Aldiss, Tubb, White, Shaw, Kapp, Ballard, Bayley, Lan Wright, and loads more." Although Clarke's 'tale of the future" may not include all SF and the list may not be complete (Stableford raises questions about one year's titles, 1952), the accomnanying graph provides a visualization of British publishing experience.

The declines between 1913 and

140

135

130



30

25 20 10

1918 and from 1940 to 1945 coincide roughly with the war years and may be attributed to paper shortages as well as a refocusing of minds on the present, but the sharp rise during the Depression years may require more complex rationalizations. A similar summary by year of American publications, if it existed, might show an identical low level of book publication in the years up to World War II. but the neaks and valleys might be shifted. One of the valleys would cover the years 1926-45, when much of the energy of SF writers was diverted into the magazines and virtually no magazine fiction was reprinted until immediately after the war, although a small flurry lasted from 1937 through 1943. Such a comparison, however, would not reflect the substantial contributions of the magazines to the American reading experience. The existence of the magazines may even have exerted an inverse influence on book publication, as if the general publishers had decided that fiction published in pulp magazines was unworthy of being placed between boards. Most of the books published during the 1926-45 period came from other sources-from the American mainstream or from Britain.

Britain also lagged behind the American experience in the postwar boom. America had the fan publishers to demonstrate the viability of the SF market and to contribute a substantial number of publications before Simon and Schuster, and Doubleday, and then Ace and Ballantine, gof into the business.

5

The British difference came into full perspective when Michael Moorneck took over as editor of New Worlds in 1961, John Campled was 27 when be became an eclior, Moorneck was 24. While Campbell evolved his ideas and methods as he went along ("I wanted to Inam how to be an editor," he was a superspective of the same with the presented of the min who to be an editor," in superspective and the same with the same and the s

bines satire with splendid imagery, discusses the philosophy of science, has insight into human experience, uses advanced and effective literary techniques, and so on."

That issue also had an article on William Burroughs by I. G. Ballard. who was to be nailed, Aldiss says, to the masthead of Moorcock's niesto ship. "Moorcock's New Worlds." Aldiss wrote in Trillion Year Stree "bad few taboos. . . . It encouraged rather than rejected literary experimentation and steadily became the focus for a re-evaluation of genre standards and a crucible for new attitudes. . . . Moorcock's energy and the imagery of Ballard and Aldiss attracted a new audience to science fiction. It was in fact an audience already around, erokking the more

time, but not at all tuned to the old pulp kilom, of which the Carnell magazines had been the tired inheritors. Colls Greenland, in his book about the New Wave tilted The Entropy Exhibition. describes Moorcock's New Worlds 'into whese pages crowled a lage number of writes. From the College of the College of the jests,' the end of rano-indeed, the end of everything—and the place of the future in the present. While poets and orators were making free with

old images of utopia and Metropolis,

were occupied with a newer image:

entropy. They saw the degeneration

starmen and robots, these writers

way-out strata of the life of their

of energy as a fit image for the disintegration of society and the individual consciousnes."

All that might have gone relatively unnoticed by the producers and consumers of traditional SF. In the term 'New Wave,' however, and the revolutionary manifestors of its thecoroticans was implicit, and in Juddin-Merril's anthologies explicit, the heter that this productive fiction as-

pired not just to a new audience but to the old one as well. In assessing the demise of New Worlds Greenland stys, "More dumaging was its aim not just to improve or enlarge traditional SF, but to replace it altogether," in another chapter, he wrote: "Moorcock's We editorials call repeatedly not for the eager innecents who had supported the magazine until then, but for those prepared to extend their bookshelves to unprecedented lengths. In 'Onward. Ever Onward' he specifically puts away 'Heinlein, Blish, Asimov, van Vogt,' and dashes out for the latest Penguin Europeans: 'Kafka, Camus, Sartre, Borges, Wyndham, Lewis, Cocteau'-a sure syllabus to ravage the innocent and overload his social, moral, and intellectual sensibilities." And Moorcock recalls. "We were surprised by the lack of response from old guard SF fans, who we had assumed were as hungry for real imagination as we had been."

Much of this can be attributed to the enthusiasm of revolutionaries. The writers assembled around New Worlds were not so different in antitude from those attracted to Campbell's Astronding in 1937 or to Anthony Boacher's Fainteny and Science Perion in 1999 or Horsec Golds's Galseria in 1999 or Horsec Golds's Galsia of the Company of the Company of the Company of the Company of the in science facility of the Company in science facility of the Company of the Company of the Company of the in science facility of the Company of the Com

Another factor was the temper of the times, stremming in part from the American Wetnam experience, in part from the U. S. civil rights movement and the subsequent campus unrest. Greenland points to the youth culture with its hippie autitudes and use of mind-altering drugs, and Aldiss, to 'Beattemania... hair length-ring, consumerism... min-skirts

... a new mood of hedonism was in the air." buth Merril tiled the volume in which she proclaimed the new wave to the rest of the world. England Surings SF (1969). But sharp breaks with the past were common around the world, and the American bumper-sticker "Question authority" bespoke the attitudes of a eneration.

The battle for the heart and soul of science from that ensued might be said to have been won by majitudinal St. The new audience that Aldiss describes and Morocock hoped for was not safficient to sustain the Moorocck New Worlds for more than a lew years, and the latter part of that was sustained by a governmental proported Arts Council grant as well as by subsidies from Moorocck himself. Traditional readers did not as-elf. Traditional readers did not as-

cept the new literary experimentation nor the Burroughsian images of comunition and defeat.

in the longer elsew the New Wars in the longer velocities, its struging the longer than the longer than the properties for greater freedom of theme, and style theoroproated into the regcroine available to all writers in the field. Writers as experienced as Jack Williamson and Freedenk Pohl were field. Writers as the second of the longer than the Bear would have been farting readed to produce their loss twork without the New Wave breakfurough.

Meanwhile the idiosyncratic leads ing lights of the New Ways have gone on to find their own audiences. The goal of the literary mainstream has always been individual expression, not senre development, and the audience simply was neither broad enough nor numerous enough to span the New Worlds spectrum. Ballard ascended to the empyrean of bestselling authors with his autobiographical Empire of the Sun, and Aldiss, after his own autobiographical bestsellers and some experimental povels, may have created his SF masterwork in the Helliconta series, itself a return to the older concern with the influence of environment on human potential and efforts to understand and finally to cone with it. Other New Worlds writers have had more intermittent success. like one heir to the tradition. Christopher Priest, whose novels such as The Glamour sometimes have reached a more general audience and who no longer, Aldiss writes, considers himself an SF writer, to which Priest responds that he never did

The British publishing situation, particularly for science fiction, was depressed in the 1980s and the British "difference" may have made British novels less publishable in the U. S. As Aldiss points out, "British SF writers generally have few of the advantages of their American colleagues, apart from the mother tongue. The absence of a large home market means that British writers need to sell their work abroad—in particular in the USA-to earn more than a subsistence wage. . . . Many find it hard to sell their more lyrical, less technological SF in the American marketplace. By the end of the seventies British SF had become a cul de sac. Even the best writers could not guarantee that their novels would be taken up in the States. Few new writers came through."

7

Phflosophically, then, British SF always has been more closely allied to the literary culture than the scientific culture, to use C. P. Snow's 'Two Cultures" terms. Aldiss points out that "against all odds. English SF has never divorced itself entirely from the mainstream.* In a 1959 lecture Snow bemoaned the failure of the two cultures to understand each other. They didn't read the same books, didn't look at the world the same way, and therefore they couldn't talk to each other. "There seems to be no place where the cultures meet. I am not going to waste time saying that this is a pity. It is much worse than that."

Although he attempted to be evenhanded in his criticisms. Snow's sympathies seemed clearly with the scientific culture as he went on to describe the belief by scientists that the state of knowledge, and therefore the hope for a better life for many. was continually improving, and contracted that with the reaction of literary figures to the promise of indusretalization. "If the scientists have the future in their bones, then the traditional culture responds by wishing the future did not exist." Intellectuals. he said "in particular literary intellectuals, are natural Luddites."

The motivation for his lecture is revealed in the sentence: "It is the traditional culture, to an extent little diminished by the scientific one, which manages the western world."

Science-fiction writers of any lund are far from the seasts of power, and it would be a missake to place any group of them too firmly in any-camp. No matter what one firmly in any-camp, No matter what personal particular author, many Brain and the season of the case for any particular author, many Brain writers have resulting to American magazines and have had their novels published in the U.S. Or many of American writers have received good notices writers have received good notices.

in The Times Literary Supplement or were welcomed into the Moorcock New Worlds. After readers of concurent 1999 issues of Amazing and Famistic Adventures voted top-story awards to William F. Temple's The Four-Sided Triangle' and to John Russell Fearin's The Man from Hell," Fearin wrote to Temple, "It takes we prish guys to put a over, Julia" And Mike Ashley adels, "There was no doubt that any and every British writoludit that any and every British writ-

er could take America by storm. . . . " Nevertheless, one cannot overlook the British difference, and it is not enough to attribute all the literany excellence to the British and all name faith in the future to the Americons. After the controversy that present the awarding of the first John W. Campbell Award for the best SF novel of the year to Barry Malzberg's Reyond Apollo. Aldiss wrote that any good fiction recognizes "the fallen state of man." While it cannot be denied that much good fiction stems from that attitude, much does not, including the epic, lack Williamson makes a case for science fiction as a modern form of the enic

Moreover, one might note the buman tendency to attribute more literary ment to the tracedy. Shakespeare's comedies, excellent as they may be, are considered lesser works than his tragedies. A consensus list of the world's great works would begin with those that end in death and destruction, and those that end happily or successfully for the individual or his social group would be ranked far lower. This may be due to the Judeo-Christian culture-"the fallen state of man"-or it may be simply that tracerly, with its inherent conflicts and appeals to the darker sides of human experience, is more moving (and easier to write well) than comedy. What may be harder to prove is that we rank tragedy above comedy because it reveals some basic truth about humanity.

Addiss's short definition of science fiction is "Hubris clobbered by nemesis." Granted a bit of poetic license for brevity and a bit more for levity, the phrase nevertheless suggests that humanity's attempt to understand the universe is doomed to failure and will be punished. Scientists themselves may have doubts along the lines of J. B. Aldalme's suspiction 'that the universe is not only queerer than we imagine, but queerer than we can imagine.' but none of them suggest that the search is moivasted by overweening pride or anticipate divine punishment, and some of Adiksis own stories (the Helliconia trilogy in particular) exalt an orgamued search for understanding.

Trillion Year Spree notes that Wells, escaping from the horrors of a lower-class Victorian environment, saw the hope that science offered of a better world. These who argued against him, like Lewis and Husdey, saw only the eternal human condition, which science could not immainly the condition of the condition of the condition of the condition of home to the condition of buman condition, and loathed it hence his strong win of pessimism —but he believed it was maletable,

not eternally the same." And later, "However much American science fiction may think of itself as-in the rather ridiculous phrase-'maintaining faith in the future.' the prevailing tint of fin de siècle is unmistakable." Essentially, the argument about the attitude one ought to adopt toward the future is conditioned by whether one thinks that human nature is fixed or canable of improvement. If it is fixed, then change can do nothing for it: indeed, change is likely to worsen the situation: utonia lies not in the future but the past (in the Garden of Eden or the Greek Golden Age), where humanity lived in harmony with its surroundings.

On the other hand, if one believes in evolution, as Wells did, one may well conclude that the human animal evolves like all the others, as environment selects certain characteristics as more successful. This sense of adaptability, of change in humanity as well as in its environment—indeed, as a consequence of the changes in its environment—has been the philosophiical background for American SF

Two stories illustrate this difference in philosophies: E. M. Forster's "The Machine Stops," published in 1909 as "a reaction to one of the earlier beavens of H. G. Wells," and John W. Campbell's "Twilight," published in Astounding in 1934 as the first of

his Don A. Stuart stories. Both deal with eschatological visions of humanity approaching estinction. The grublike humans of "The Machine Stops" have come to depend upon the Machine for their every need, including information, and when it begins to fail they not only cannot repair it, they deny its growing errors. Finally

it fails completely and everyone dies. "Twilight," with a similar end-ofthe-species situation and a similar dependence on machines, offers cities that are self-repairing although most have been deserted for more than one hundred thousand years, they still work perfectly, waiting for a human to enter. Meanwhile humanity, though tremendously advanced, has wiped out all competitive life forms in a quest for efficiency and has lost its curiosity, the trait that makes the species human. The remnants of humanity are doomed, not to Forster's catastrophic extinction but to a slow and melancholy dwindling toward nothing. Then the time traveler to the future, before he departs, sets a machine the task of producing a curious machine. What seems at first a tragedy of the species becomes a story of human triumoh, because it will have mattered that humanity existed and the machines, now human by definition, will fulfill the purpose

The essential distinction between the two stories is not that one has it right and the other has it wrongthat, certainly, will be determined only by events themselves-but that the authors have evaluated the basic elements of their stories differently. The defining characteristic of humanity, Forster says, is its corruptibility: given the opportunity to have its work done for it, humanity will lose its judgment, its heart, its "soul," The defining characteristic of humanity Campbell says, is its curiosity, its propensity for asking questions such as what and how and why, and, though this may be lost, the important issue is the curiosity (the entire enterprise of science)-more important than the species in which it developed.

of human existence by riddling out

the secrets of the universe

Further, Forster defines the machine as something that will make you dependent upon it and once you lose your ability to exist without it will break down. Campbell defines a machine as something that does not need, theoretically, ever to break down; unlike fallible and aging flesh, machines can be made self-repairing. They can continue functioning forever.

Who is right. Forster or Campbell? The answer rests in whether one is born a pessimist or an optimist, or even in one's mood when one reads the story. Certainly the human species looks corruptible much of the time, but occasionally it displays an incorruptible honesty, even a nobility, and in a number of instances behaves as if curiosity is its most important characteristic. Humanity's experience with the malevolence of machines-as Forster says, they always break down-argues that Forster is right; but Campbell ultimately may prevail. In the dreams of our

ster is right; but campbell ultimately may prevall. In the dreams of our technically based society, machines shine like Campbell's eternal cities. The answer, of course, is that neither and both are right. Aldiss refers

to "the two poles of modern fantasy." At one pole wait Wells and his homourable predecessors such as the homourable predecessors such as Olis Adelbert Kline, and the commercial producers, such as Olis Adelbert Kline, and the werenless, and horror merchants such as H. P. Lovecardt, and so all the way past words of the producers, and borror merchants such as H. P. Lovecardt, and so all the way past words. "The thinking pole and the dreaming pole. Addiss clearly favore the thinking pole where "stand great figures, although it is dreaming pole astand no great figures."

... and it is difficult to write well."

The implication is that both poles are necessary. So, it seems reasonable to suggest, are both streams of science fiction, the pessimistic literary strain and the optimistic technological strain. SF is the richer for having both; each functions as a critique of the other. The literary culture reminds us that people are not machines but stubborn, feeling, fragile human beings. The scientific culture reminds us that the story is not over, the future is still before us, and humanity may yet find a solution to. or at least an amelioration of the human condition +

Thallasogens III: The Sulfuric Acid Sea

Stephen L. Gillett

In a previous column I described how sulfur diotde seas might occur. In our own System, Jupiter's moon to shows that sulfur can end up concentrated at the surface of a world, and I fo were just a bit bigger and a bit warmer), liquid sulfur dioxide could exist right at the surface. SO₂ occurs on Io now, but only in the substarface, where it helps drive volcanic eruptions in much the same way as does water on Earth.

But SO₂ isn't the only possible sulfur-containing thallasogen. Another is sulfuric acid. H-SO₂

Seas of sulfuric acid? That sounds completely preposterous. Sulfuric acid not only dissolves most everything in sight, it reacts with most everything in sight.

But on second glance the idea isn't quite so silly. Sulfuric acid is a lot like water it's highly polar and hydrogen bonded, it has a high boiling point (about 337°C), and it has long range of temperatures over which it's liquid—over three times

How might such a world form? Well, just as with the SO₂ planet, we start with a world whose surface is suffur-nich. All its other volatiles—the other compounds and elements with low boding points, such as methic, hydrogen, water, altrogen, and so co—gex boiled out by volcanism and lost from the atmosphere vergeologic time. Only suffur, the heaviest of the lot, was left behind.

This world, though, started out with a lot more oxygen than the SO₂ world What difference night that minde Well, consoler a planet that santed our relatively Earthlike, with a lot of water, he interme photoderic and the planet of the planet with the planet water water, so that the hydrogen excepted to space but the oxygen excepted to space but the oxygen except to space but the oxygen except the planet water with the planet water water, so that the planet water wate

while its oxygen was left behind.
Then what would happen? The
oxygen would sooner or later oxidize
all the sulfur, not just to sulfur dioxille, but all the way to SO₃, sulfur
trioxide. That would then react with
one empiring water to form H-SO₃.

sulfanc acid. In fact, we do have a partial Solar System analog of this scenario: the clouds of Venus. They're made of droplets of sulfuric acid. As Venus lost its water through photodissociation. lots of oxygen was left behind, and it exidized sulfur to the point that sulfuric acid finally formed, just as I described above. Being bound up into H-SO4 droplets also preserves Venus's last smidgen of water from photodissociation. As this would also be true on a planet with H-SO. oceans, we wouldn't lose oute all the hydrogen

Of course, H₂SO₄ droplets in Venus's clouds are a far cry from having an H₂SO₄ ocean. But perhaps if Venus had started out cooler, had been less rich in CO₂, and had been much richer in sulfur, it might have sulfuric seas today, too. Obviously, the surface minerals

on a planet where liquid sulfuric acid runs like water will be rery different from Earth. Chemical weathering will be intensef Sulfuric acid reacts with most common minerals, breaking down their structures and extracting metal ions from them.

Surprisingly, we actually have an Earthly analog for such weathering from hor springs deposits. Most terrestrial hot springs contain dissolves sulfur compounds, which oxidize into H₂SO₄ as they encounter oxygen near the surface. And the acidic waters then attack the rocks around them.

So we can get an idea of what the surface of an H-SO, planet might be like by looking at hot-spring minerals. As you might guess, only a few of the common minerals can resist such an acidic environment. Quartz (the common, stable form of crystalline silica, SiO2) is one. Other common minerals, though, such as feldspars, crumble away. In fact they get changed into clay minerals-certain of which are stable, and which make up the cruddy, clavey or muddy material that's so ubiquitous in hotsprings alteration. The individual crystals are so small that the material has a clay texture. (Many Earthly ore deposits, by the way, are found in and around such altered rocks.)

Other oxides besides quartz, which are rare minerals on Earth, might also be stable, including corundum (aluminum oxide, Al₂O₃). (The gern forms of curundum are more famous supphire and raby.) Certain sulfates—salts of sulfuric acid—will also be stable, and maybe a few other salts. (Not sodium chloride itself, though: the chloride in it reacts with H₂SO₄ to give HCl, hydrochloric acid.) But overall, the very rocks themselves will barrille be Parthlike.

There will be no ealcium cathonted (linestone) either. Cathonates react with acid to give carbon disosite. In fact, the standard field test for limestone is to drip neld on a rock, and see if it fizzes. So, all the CO₂ will go back into the atmosphere, which could make for an awkward greenhouse effect—as we already saw with Veru.

This virrollic sea will also be highly "salty": it will have dissolved lots of metal ions out, to the point that nothing else can dissolve. In fact, sul-lates will probably precipitate out, the way salts precipitate from extremely concentrated H₂O brines on Earth such as the Great Salt Lake or the Dead San

But even if some minerals could survive, could anything organic survive? Sulfuric acid reacts as enthusiastically with many organic compounds as it does with most minerals. For one thing, it dehydrates sugars to carbon and water a standard lab demonstration is dripping H2SO4 onto a sugar cube. The cube crumbles into black carbon while steam wafts off from the heat of the reaction. It also breaks down many organic acids: another Organic 101 demo is breaking down formic acid (HCOOH) into water and carbon monoxide by dripping sulfuric acid into a formic acid solution.

Still, H₂SO₄ doesn't neart with all organic compounds. For example, alkames (straight-chain hydrocarbona), like home in gasoline and natural gas, just bubble right through. (The oil biz uses this to purify them, by the way.) It incluses other organic compounds by adding a proton thydrogen nucleus), but doesn't break them up. So this just says an alten biochemistry will need different building-block compounds. It doesn't say

And even if some system of opganic compounds worth work, there is another interesting possibility silicones. Of course, this class of compounds is much more famous for high-performance lubricums—not to mention starlest bosons. But in fastthey may be just the thing for a fastthey may be just the thing for a fastthey may be just the thing for a fastthey may be just, and yet have the variety and complexity needed to be the basis of a first-bensition.

Silicones have a backbone made of alternating silicon and oxygen atoms:

which looks just like the hackbone in many silicate minerals—in pyroxenes, to be exact. (Silicates are the compounds of silicon, oxygen, and metals that make up nearly all rocks.) Unlike silicates, though, silicones are not known to occur naturally (so far, anneary)

Now, instead of the metal atoms stuck between the silicon-oxygen chains that silicates have, silicones have organic (carbon-hydrogen-oxygen) groups chains stuck onto the silicons. like this for example:

where the R's and R's are various organic side chains, such as methyl (-CH₂), phenyl (C_CH₂), and so on. These groups need not be all the same; and for biochemicals, they certainly won't be, either. That's what gives them the variety and complexity—the information-storage capabil that may make silicones cana-

ble of serving as the basis of life.

H. Beam Piper's Ulter Uprising
proposed a silicone-based biochemistry, but the chemistry was wrong.
The story suggested that silicones
were favored evolutionarily because
the planet was unusually silica-rich,
but it would be hard to find a planet.

richer in silicon than the Earth itself It's the second most abundant element in Earth's crust, after oxygen.

In fact, silicates are very stable under the usual Earth-type conditions. To break them up—and keep them broken up—requires pretty rigorous chemical conditions. But as we saw in our survey of hot-spring deposits, rigorous chemical conditions is a good description of a suffusic acid environment. If SO₄ is capable of breaking up silicate minerals, and under such conditions silicate minerals, and under such conditions silicate minerals, and under such conditions silicate minerals.

As we saw, too, the sulfuricacid planet will also be a highly coddized planet. So, if some organism evolved interest of the succession of

it'll have big problems with technology. What's it going to do for metal? Most metals react spectacularly with sulfuric acid. And even though a few noble metals—cold, platinum, a handful of others-don't react, they're rare and not very strong anyway Try making a plow or a spear out of gold! (The noble metals are good electrical conductors. Maybe the intelligent beings could develop an electrochemical technology, using ceramics for vessels. Without iron and copper, though, building massive generators will be difficult so generating the electricity is likely to he a problem)

So, any intelligent beings on the sulfuric-acid planet are likely to be stack there forever. As we've seen before, such environmental quirks may contribute to the Fermi Paradox, Maybe life is common, and even incelligent life is not rare—but most intelligent life is not rare—but most intelligent life is not are—but most pacefaring technology. 4

Tomorrow's Books

June 1993 Releases





Compiled by Susan C. Stone and Rill Fawcett

Isaac Asimoy (writing as Paul French): Lucky Starr Book 3 Spectra SF ph roiss, 288 pp. \$4.99. Oppubus edition containing Lucky Starr and the Moons of Juniter and Lucky Starr and the Rings of Saturn

Robin W. Bailey: Brothers of the Dragon Roc Fantasy, pb orig, 320 pp. \$4.99. The first novel in a new epic triloov of magic murder and mortial arts. Two brothers discover a passage behind a waterfall that leads into the alternate world of Palenoc, where dragons patrol the skies and unscorns are deadly.

Margaret Ball: Changeweaver Ruen Fantasy, nb one, 304 np. \$4,99. Turney one of the most powerful magicians of Gandhara, sought help for her people in the outer world and found it. But the British demand a high price for their protection. Turns will enide them into the demon-infested empire of Chin. but first she must divest them of their dangerous elishelist in demons Margaret Balli Flameweaver Buch

Fantasy, pb reiss, 384 pp, \$4.99, Tamai, a young magician, seeks beyond the Hindu Kush for help for her people. There she meets an English gentlewoman, and their alliance releases the most powerful magic the world has ever seen Margaret Ball: The Shadow Gate Rien Fantisy, ph reiss, 352 pp. \$4.95.

Key to Abbreviations

inal publication.

he hardcover, almost always an origpb orig: paperback original, not published previously in any other format

Historical fantasy with the action movene between Texas and Elven Britany. Maya Kaathryn Bohnhoff Taminy

Buen Fantasy, pb orig, 416 pp, \$4.99. Seonel to The Meri. A hundred years sen-Transport were Called to the set to become one with the Meri and become her god's aspect on earth, Now, another girl has come to take her place, leaving Taminy women to their proper place in the

world of the Meri Maya Kaathryn Bohnhoff: The Meri Baen Fantasy, pb reiss, 288 pp. \$4.99 A woman is Called to assume magical power in a world where men rule, and resent her Meti-given eifts.

Marion Zimmer Bradley, editor: ob orie: An anthology of stories about women of power-whether trained in the ways of the warrior, or in sorcery, Stories by Mercedes Luckey, Diana Paxson. Deborah Wheeler, and others, David Brin: Glory Season Spectra

SF. hc. 576 pp. \$21.95. Long ago the Founding Mothers set out to referee human destiny through cloning, to create a nisitoral world. Now the varient (nonclone) girl Maia is ready to make a place for herself and her vorces of self-discovery will transform both her self, and

Michael Cadnum: Saint Peter's Wolf Zebra Horror, 1st time in pb. 432 pp. \$4.99 Art collector Benjamin Byrd is mesmerzed by the starting artifact he recently added to his collection: a set of

ab reise nunerback system design nating a title that was previously pubfished in paperback but has been out of pb rep-paperback reprint, designating a title that was previously published

fanes embedded in silver. Soon his reansformation accelerates and he nunfree, stalking human prev

Romsey Compbell: The Count of Eleven Tor Horror, 1st time in pb. 416 on \$4.00 The story of a man who has terrible luck after breaking a chain letter. and sets out to kill the other people on the chain to change his luck

Ramsey Campbell: Strange Things and Stranger Places Tor Horror, he. 256 nn. \$18.95. Two novellas and cieht shorter works, ranging from hallucinatory through forbidden castle mins where dark games become deadly reality Jeffrey A. Carver: Dragon Rigger

Tor SF, hc. 416 pp. \$22.95. Deep space solventiere in the Star Rioper universe. A star-rieger enters the hyperspace of the Flux and is caught up in an age-old dragon was C. I. Cherryly Hellhurner Ouestar

SF, first time in pb, 400 pp, \$5.50. Sequel to Heavy Time. When Dekker is miured. in a suspicious accident, his former partner Pollard is forced to investigate, and they are both trapped in a shadowy more of deen space politics, where the rules change without warning ... and their only defense is Earth's most secret

Greg Costikvan: By the Sword Manie of the Plains Tor Fantasy be-256 pp. \$18.95. A fantasy novel about a young barbarian who is the son of the god Mongoose, and whose danne deeds are legion.

in handcover or trade paperback (sometimes expressed as 1st time in pb). tr pb trade paperback, a format using pages larger than a paperback but generally smaller than a hardcover, with a flexible cover.









Roberta Cray: The Sword and the Lion: DAW Fantasy, pb orig, 492 pp, 45.99. A classical epic fantasy set in a land reminiscent of Bronze Age Greece, chronicling the conquest of a legendary city.

John DeChancie & David Bischoff, Dr. Dimension Rec. SF, plo ofig. 288 pp. 54.99. Dr. D. was certain he was on the brink of hudding, a working spacetime michine, and his arch-rival was determined to see that he failed—or elsesteal his invention. But mether of them planned on a rate of future technology that would set them adrift in spacetime, in the middle of an intergisheir war.

Charles de Lint: Spirituealt Tot Fantasy, first time in pb, 384 pp, \$4,99. The Fantasy, first time in pb, 384 pp, \$4,99. The International House in modern Ottawa, with its garden gateway into a mystical otherworld which blends Celtic and Native American mythe and legends.

Troy Denning: The Obsidian Ornacle TSR Farnasy, bo org, 352 pp, \$4.50. Volume Four of the DARS ISM® Paism. Pentad. The nobleman Agis of Astacles tacks King Tibhan of Tya raress the Sea of Silt, hoping to beat him to the artifact hat could give Tibhan the power of a soccere-King. The future of Athas Res in the balance.

Gordon R. Dickson: The Dragon on the Border Ace Fantasy, 1st time in ph, 400 pp, 55, 95. Sequel to The Dragon and The George and The Dragon Knight. Sir James, the Dragon Knight, must find a way to fight the Hollow Men—spirits of the dead, in empty suits of armor, with verspons that are all too real.

Gordon R. Dickson: Lost Dorsais: The New Dorsais Companion Tor SF, pb ong, 288 pp, 54:59. A concordance listing where characters were first mentioned in the Childe Cycle, with entries describing events, relationships between characters, and the history of the Cycle Also includes the novella "Lost Dossa?" and the short story "Warrior."

Debra Doyle & James D. Macdonald: Starpiliot's Grave Tox St, ph orig, 48 pp, 54 50, Seepael to The Price of the Stars. When Beka discovers that the Magedonk are poised to statck, her piloting skills are all that stand between the Republic and annihilation. Then her hyperspace engine falls, leaving her definion and dissperse to swell advis from

spaces cell à Samplér's Grave
Debra Doyle à James D. Macdonald The Price of the Stars Tor SF, ph
relis, 488 pp, 54-50. The centancs-long
was between the human Republic and
the Mageworlds has been over for thirty
years. Bet now an assassimation imperiisthe peace, and the vicinit's disughter finals
herself in the thirch of Galactic intrigue.

David Drake: The Military Dimension: Bren SF, pb ress, 288 pp, 84 50. A collection of military SF short stories. David Drake & S. M. Stirling: The

General #3: The Asmil Bucn SF, pb ong, 320 pp, 84.99. Loyal and victorious General Raj Whitchall has always been neady to pay any pnee for final victory. But now his emperor's half-mad jealousy gives Raj no choice hut to revolt, or face cleath by tortune. David Drake & S. M. Stieline. The

General #1: The Forge Bacn SF, pb reiss, 336 pp. \$4.95. A young military of ficer discovers—or is discovered by—an artifact of the fullen galactic civilization. a sentiont hattle computer. Its mission, and now his, is to go forth and conquer the planet, and then reconnect the stars.

David Drake & S. M. Stirling: The General #2 The Hammer Bach St. ph riss, 320 pp, 54 99. Rij Wikielall must overcome the musices and salers of his harbusin opponents and risk accusations of reason from the campero's court. Kate Elliott: The Surend of Houses 22 His Conguering Surend DAW S1, pb ong, 495 pp, 55.99. As the jaran talkes prepare to beseige the royal city of Karkand, Charles Sociensen, leader of the faded rebellon against the alen Chapelli Empire, has come to Rhui to rechain his steer and heigh his cown battlechain his steer and heigh his cown battlechain the steer and heigh his cown battlethe steer of the steer of the steer of the before human learned to wilk circu. Kate Elliott, The Surend of Heaven

#1: An Earthly Croum DAW SF, pb reiss, 592 pp, 559. The first of a twopart sequel to Junni. Earth-born Tess and her juran husband lead his normadic people on a cumpaign of corquest across the world of Rhai, while Tess's brother tries to win her aid in interstellar rebellion

Kate Elliott: Jaran DAW SF, pb reiss, 54.59. Tess came to Rhui to fice political responsibility, but when alien conquerors tamper with her new world, she must act to save the folk who sheltered her.

Robert C. Fleet: White Horse, Dark Dragon Ace Fantasy, pb orig, 224 pp, \$4.50. Jim Marlow came to Central Europe to study the environmental impact of a planned mining operation.

impact of a pinnied mining operation.

But hidden in the mountains of Kaństan is a myth come to life that will change the lives of all who enter its domain.

Alan Dean Foster: The False Mirror Del Rev SF, list time in pb. 320 pp.

\$5.99. Book =2 of The Dammed. After millernin, war still rages between the Ampiliar and the after/Human alliance lonown as the Weave. And when Weave forces capture an enemy agent, they discover that the Ampiliar's new secret weapon could turn the entire galaxy against the Human race.

David Gemmell: Knights of Dark Renown Del Rey Fantasy, ph orig, 304 pp, \$4.99. When the legendary knights









of the Gabala vanished through a demon-haunted gateway between worlds, only one of them, Manannan, stayed behand. Now murder and black magic beset the land, and Manannan must venture beyond the dreaded gate to bring hack his vanished companions.

Roband J. Green: The Painful Field Roc SF, pb orig, 384 pp. 54.99. The feel of the sacreniser Shevandood is essential to maintaining the peace on the world of Linalch, but someone wants to use them as a catalyst for war, beginning a campage of terrorism that could overturn the balance of power hetween human and alien.

Martin H. Greenberg, Richard Gilfaderacy of the Dead Roc Horror, ir phosis, 480 pp. \$12.00. An all-original anthology of 25 sorties about the Grid War, by bestselling masters of our ghostty past—authors of sexence fiction, dark fannas, and horror loc Haldeman Worlds Enoneh

and Time AvoNova SF, 1st time in pb, 336 pp, \$4.99. The long-awarted conclusion to the Worlds trilogy. With their homeworld in runs following nuclear

nomeworth in runs rollowing nuclear devastation, 10,000 colorists set out for the stars, and face mysterious deaths, sabosage, and the end—or a new beginning—for humakind. Ioe Haldeman Star Trek: World

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hot on the captain's trail, desperate to deal with a case of astronomol interest. Dean Ing. Biood of Engles Tor Suspense, 288 pp, 53.95. A thiller that begins in Albumia with gold stocken by the Nazis, and ends in California with a son of an Albumian freedom fuelter fioli-

ing for the same prize... and his life.

William W. Johnstone: Bats Zebra
Horror, ph orig, 352 pp, \$4 50. A huge
swarm of vampire bats suddenly develons a taste for human blood.

David Lee Jones: Zeus and Co.
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The trouble sarted when Cyms Major
discovered Euterpe, the Greek Muse of
lyric poetry, imprisoned on a hard drive.
The heroic hacker is a gomen if he can't
dodge industrial spines, the FBI, and
througherbolk form a ticker off Zeus. to

seand firm in the name of mythic love.

Gwyneth Jones White Queen Tor
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When humanoid aliens land on Earth
early in the 21st century, the world
channes in disturbine ways.

William H, Keith: Warstrider #2: Rebellion AvoNova SF, pb orig, 352 pp, \$4,99; Devis Cameron, hero of the Xenophobe War, must choose between betraying his masters or his principles. For humankind's salvation lies in an impossible alliance of men, monsiters, and

Yoji Kondo, editor. Requieus. New Collected Works by Robert A. Heinlein and Tributes to the Grand Master Tor St., 1st tr pb., 552 pp. S12 295. A collection of new and uncollected works by Heinlein, along with other writings and speeches. Introduction by Virginia Heinlein, and tiflutes by Tom Chancy, Arthur C. Glarie Gordon R. Dickson.

Spider Robinson, Robert Silverberg, and others Robert D. Lee The Keeper PinnaTor Farnasy, hc. 304 pp, \$21.95. An environmental fantasy novel which sweeps from historical Atlantis and the flood, to 21st-century America.

In McDonald, The Broken Land Spectra Sir, ph. 520 pp. 550 p. In Earth's far future, when the Emperor's troops discover two roles obdites being hidden by a local sympathizer, the streets of a conce peaceful village run with hidod. And, in the misks of the flighting, young Mathembr Felle is cast off on an epic journey through her tragic, beautiful intel—a land divided against twoff.

Alex McDonough: Dragon's Claw Ace SF, ph ong, 176 pp, 54 39. Sequel to Dragon's Eyb. In this time-travel adventure, Scorpto discovers that the VOs, an ancient, evil race, are the power behind the Humens who once dominated his plants Terrapin. Scorpto must travel to the VOs homeworld to find a way so free his people from VOs slavery.

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V. E. Mitchell. Star Trek #65: Windows on a Lost World Pocket Books, pb ong, 288 pp, 85 50. When a kinding party from the Enterprise finds strange devices, like windows, in the ruins of an ancient civilization, Kirk, Chekov, and wo security exands are tripped in the









alien environment beyond. Spock must unravel the window's ancient mysteries before they are lost forever. Brent Monahan: The Book of Com-

mean Monarian: The Book of Com mon Dread St. Martin's Press, Inc., 336 pp. \$19.95. Vincent DeVilbiss is a thoroughly modern vampire who must find a way to destroy an ancient cursefform scroll before its apocalyptic powers are turned against him.

Larry Niven, editor: The Magic
May Return: Ace Fantasy, pb cess, Spp, \$4.99. In this sequel to The Magic
Goes Ansay, Larry Niven invited Poul Anderson, Steven Barnes, Mildred Downey
Brown, and Dean Ing into his world to
uncover forgotten places of power and
offer hope that The Magic May Return.

Andre Norton & A. C. Crispin: Gryphou's Eyrie Tor SF, pb, 256 pp, 5499. The conclusion of the Gryphon tillogy. Traces of ancient forces linger in Kerovan's spirit, tormenting him. Once again, he feels the irresistible call of his blood—this time summoning him to the final battle of Light against Dark.

Charles Pellegrino: Flying to Valbased AvoNova/Morrow SF, Inc. \$22.00. As Earth's relativistic spacecraft Valleyre approaches First Contact with an alien race on Alpha Centaurt Act, the masters of Earth realize that the man who controls the mission, and the destany of both worlds, is quite possibly insame.

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(The Sandered #3) Del Bey Faratosy, pb orig, 352 pp, 54 99. Awakened from centuries of enchanted sleep, Erin, Sonilorn, The Ludy of Mercy, resumes light's battle against the Dark Empire, and her own struggle against her love for her sworn enemy, the Dark Lord. Her task—to free the Ind., its people, and hersel?

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Lucius Shepardi Kalimantan Tor St. Is time in ph. 224 pp. \$3.99. Deep in the lush geen jungles of Borneo, MacKinnon discovers a powerful native drug that dissolves the border between reality and a strange realing of visions, spirits, and a lost alten civilization.

led to the war remain.

Robert Silverberg, editor: Murasaki Spectra SF, 1st time in pb, 30f pp, 55-99. Under Robert Silverberg's editorship, Nebula Award winners Foul Anderson, Greg Bear, Gregory Benford, David Brin, Nancy Kress, and Frederik Fohl worked together to create the worlds and story of this silv-part novel. Guy N. Smith: Witch Spell Zebra Horror, pb orig, 288 pp, \$4.50. When 13year-old Brends Winceler is sent by her white which mother to an English boarding school, she begins some special lessons in using her supermutual gift. For, as she comes of age, her black which father has began, secretly, to lead her

down his own dark path: Judith Tarr: The Hound and The Falcon Tor/Orb Fantasy, tr pb reiss,

464 pp, \$14.95. An omnibus edition of Judith Tarr's classic historical fantasy senics: The Isle of Glass, The Golden Horn, and The Hounds of God.

Sheri S. Tepper (writing as A.J. Orde): Death and the Dog Walker Fawcett Mystery, phosig, \$3.99. In the second in a series of suburban mystenes featuring an antiques dealer/interior decorator/slewth, Jason Lyrax discovers a dead man while walking his dog in a

Denver park, and is fuscinated by the early lifelike arrangement of the body. Harry Turtledove: Departures Del Rey SF, ph orig, 366 pp, \$4.99. A collection of Harry Turtledove's alternate-history SF and fantasy sorior.

David Weber, The Honor of the Queen Bans S.; pho ong, 46 pp, 85.99. Sequel to On Basilith Sastion. Honor Harringson would prefer to withdraw when she discovers that, on the planet when she discovers she withdraw when she without rank or rights. But when the world's fentacidal sister planet attacks, Honor mass stay and prevail ... for the

honor of the Queen.

Robert Weller: Shadourrum: Striper Assassin Roo/FASA Fantasy, po
orig, 288 pp, \$499, Striper, a deadly
Asun assassin and kick-artist, is turning
Philadelphia into a shughterhouse. Set
in the world of the Shadourrus series.

Looking Forward:

Dr. Dimension

by John DeChancie and David Bischoff

Coming in June 1993 from Roc Books

Introduction by Bill Fawcett

Dr. Demetrios Demopoulos labored long and hard to build a spacetime machine, and all he had to show for it was a bunch of burned-out parts strewn around his laboratory—a source of great frustration to his graduate assistant, the voluptuous Dr. Vivian Vernon, and pleasure to his archival, Geoffrey Wussman.

Then one day a mysterious box full of astonishing gadgets arrived at Dr. D.'s lab This turned out to be just what he needed to get his specetime mechane to work—but of course nobody knew it would work until after it had whisked Dr. D., Vivlain, and three of their colleagues off to somewhere, and somewhen, far, far away.

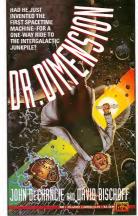
This excerpt is taken from the point in the story when they first find themselves in space —and in the middle of a war

Wussman pouted. "Demetrios, please just let me out of this thing."
"Can't do that. Geoffrey, old bean. If we

open the hatch all the air will rush out, and we'll suffocate."

"Geoffrey, just look out the viewport."
"Oh, very well." Geoffrey squeezed his way
toward the pilot's station. Stading on tiptoes,
he looked out.

"Oh, my God! Demetrios, we're in outer space!"



or on by Doyal Moreonty

"Hundreds, possibly thousands of light-years from Earth. Wait a minute, didn't I just say that a second ago?" In a moment a queasy-looking Dr. Vivian Vernon climbed un through the hatchway.

"What in the world is going on?"

"Hey, Viv. Join the party."
"What happened?"

"Vivian, come look!"

"You have to see to believe, Vivian."

Vivian peered over Demetrios's head and out the viewnort.

"Oh, my God . . .

Demetrios said, "You don't believe in God, Viv. Remember? And you didn't believe in my spacetime ship either. Well, here we be out in the middle of space. And lordy, lordy, there be the firmament of heaven."

Vivian swallowed hard, "Where are we?"

"Uh, that is a small problem. We didn't have time to

find out how the navigation gear works."
"You mean we're lost?"

Demetrics smiled. "Uh, let's not use the L word just yet. Let's just say it might take us a bit of time to get back to Earth. But then, we're in a spacetime machine—and what's time to a spacetime machine, eth?"

"Or space, for that matter," Diane chimed in.
"Oh, my God," said Dr. Vernon, "Stuck with you need

ple in a ship in the middle of . . . of nowhere. I think

Im going to linit."

A force lightning flash flooded through the viewport.
Suddrily the entil began to shade, knocking Vernon
Suddrily the entil began to shade, knocking Vernon
port to return gover sidels were the unrefusing multicultured spender of the stars. The ship did have a relevsive view, which hall be to be least. He supped a
set view, which hall be to be leastle. He supped a
glow. Apperently the explosive jump through specifies
the control of the stars of the supper side of the star of the field. He can be a supper side of the star of the field has been seen timing was coming through on them right
he can be suppered to the elevision serces. He

increased magnification, and the outside craners adjusted their telescopic lenses to the proper focal length, inmodulately, the image of something incredible resolved to crystal clarity. Demetrics was assumished at the sharpness of the photographic destil, in full color, no less. It was some sort of gigantic ship, a dreadnought larging in space like a Chirismas tree ornament from bell.

ing in space like a Christmas tree ornament from hell, bristling with more spines than a sea urchin. Two particularly large pointy spines shot gouts of blue-green fire. "Look at this," he said to Diane.

Diane looked, and her jaw dropped. "What in the world is it?"
"An alien space vessel, and it's engaged in combat

with something farther away. Yes, another blip on the scanner. This one is headed our way, though. It if gets too close—"

A tremendous flash lit up the area of space around

the spacetime ship.
Inside the ship, the lights flickered and went out.

nice a supernal ightning bolt, another gigantic flash it up the interior of the ship, fading quickly. Darkness returned with a vengeance, everyone now temporarily flash-blind.

"Damned scary, any way you cut it," said Troy Talbot "Somebody goosed me!" There was the sound of a slan and a resultant boad

"Vivian, you hit me!" Wussman whined.

"Keep your hands off me and you won't get hit."

"I didn't touch you!"
"And I suppose you didn't have your paws all over

ne when we were hiding in the bathroom?"
"It was ticht in there!"

It was agent in there?
A voice of reason cut through the durkness. People, listen, said Demention. It really think we should be do-listen, said Demention. It really think we should be do-listen to the sees at this particular moment. We're stuck mil-specially supported to the sees at this particular moment. We're stuck mil-specially supported to the sees of the particular moment. We're stuck miles are supported to the sees of the sees

"Pray. If we get caught in the crossfire, we're dead. I wanna on home?" Demetrics barst into tears.

"Then this is the end," Professor Wussman said. He wrapped his beloved in a tender embrace. "Preclous one, we may well have only seconds left in this life, our final chance for the intimate embrace you've promised me for so lone, Come, my Isolde. Kis your Tristan and

let us have our *Liebested!*"

"Dr. Wussman, please," said Diane Deny. "I'm not your bolde."

"Oh, sorry. Vivian, where are you? Vivian?" "Geoffrey, darling."

"Keep your hands to yourself, Demetrios," Wussman said disgustedly.

"Boy, you know you're a loser when the homely

ones start turning you down."

"Vivian?"

"I'm warning you, Geoffrey...."

"Vivian, darling, we—umph!"
"Can't say I didn't warn you."

"Oh, that sounded wicked," Demopoulos said. "What did you do to him, Viv?" "Kneed him in the crotch."

Something hit the deck like a sack of potatoes. Demetrios clucked. "Geof, did you ever want to sing countertence?"

Wussman's answer was a moun. Vivian looked out the viewport. The battling dread-

nought was now visible to the naked eye, growing ever larger and appearing all the more formidable in three dimensions. It was an immense artifact. Vivian was aghast.

"Oh, my God, look at that thing! Demetrics, you cobbled this damned crate together. What the hell do we

"Hold your horses, Dr. Vemon, And your knees. First we have to do something about the lights."

Demetrios made his way along the curving bulkhead, feeling his way carefully along the nuts and bolts and wads of chewing gum (damn Talbot, anyway!), inching toward an access panel that he hoped was located where he thought it was,

I don't know why the auxiliary lighting failed, but it could have something to do with those huge explosions They might be releasing powerful pulses of electromagnetic energy, which would play havoc with the ship's electrical system. Ah, here we are, the circuit breakers." Demetrics hit the button that opened the namel and began feeling inside for switches. For his trouble, he got a nasty shock

"druct" "Watch your filthy mouth," Vivian said coldly.

"I said it in Greek. The lights came on to reveal a miserable Geoffrey Wussman doubled up on the deck, mouning niteously.

Talbot, standing at another panel, flicked more switches, "Circuit breakers're over here. Doc."

'Thanks, Talbot, you manually dexterous dope.' "Just trying to help."

"You could have told me where the damned things were Never mind. Pardon me, pardon me, this is my ston." Demopoulos sidestepped his way toward the nilor's

station inadvertently, although happily, brushing against Vivian's ample bosom. "Ooos, sorry, Viv."

"No, you're not, you wolf. You were probably the one that goosed me." 'Ah, you've fingered me at last. All right, battle sta-

tions "This rob has armaments?" Vivian asked, disbelieving, "We installed something that the instructions called weapons," Troy said. "Trouble is, not only don't we know how to shoot 'em, we don't even know what the

beck they do.' "All right, let's try to get this ship away from the danoer zone." Dr. Demopoulos said, frantically scanning the control board, "Um . . . um . . . yeah. Anybody have a

suggestion?" 'Let's set up for another thrust," Diane said. "Just like

*But we thrusted-er, thrust along an unknown vector. We have to find out how to steer this damn thing, or we'll get completely lost."

"Doctor," Diane said gravely, "we're already completely lost. Let's get away from whatever those people are doing out there."

"If they're people. You have a point, Diane." Even as he spoke, multiple flashes dazzled all within

the searctime yessel. Seconds later, a shock wave slammed against the ship. Vivian and Troy were thrown to the deck on top of Wussman.

Demetrios stabbed a button and the steel shutter closed over the viewport

"Those must be atomic explosions" Demongulos said rubbing his eyes. "Nothing else could produce that much radiation. If we were any closer, we'd fry, "The radiation meters are registering dangerously high

exposure as it is " Diane said

'All the more reason for us to vamoose. Set up for

another jump. Ouick!" Outside, as viewed by the telescopic lenses of the exturner curners, the mighty space buttle seemed to intensify. Now there were two mammoth starshins, looking like nothing so much as huge, pregnant, leather-clad porcupines. They had approached each other and halted, and were now exchanging rainbows of projected nower, slamming back and forth with mighty force beams. That the comparatively tiny spacetime ship had not yet been melted into slag was testimony to its luck; howeyer, from all signs, time was not on the side of the soatiotemporauts. The duking dreadnoughts displayed a profligacy of energy expenditure that made this particu-

lar neighborhood of outer space a high-risk area "Talbot, get off the floor. Man your station!"

"Dr. Vernon's on top of me."

"I've never cared for the missionary position either." Demetrics said, turning about to look. "You lucky stiff." 'Only part of him is stiff." Vivian said, struggling to "Sorry ma'am, that's my pocketkrafe,"

"Oh? I thought you were just glad to have me sitting

on you." Talbot, greatly abashed, got up to reveal what lay under him: the slightly squashed form of Dr. Geoffrey Wasseman

Demetries got back to work, his hands moving furiously, aping Diane's. There were any number of buttons to push, instruments to recalibrate, switches to throw, and thingees to do whatsit to

At last he said "Are we ready, conflot?"

Diane said, "Yes, sir!" "Ready Engineer?"

"Yol" "Engage the main gizmos."

Talbot asked. "You mean the electrogravitic thrusters?" "Yeah, those," "Engaged!"

The ship began to throb again, the pulsing sound mounting in intensity once more.

"All hands stand by for spatiotemporal displacement!" Demetrios announced. Then he suddenly grinned. "Hev. that sounds energy doesn't it?"

"You sound just like Buck Rogers," Vivian teered, "or any other character in the funny pages. Now, get us the hell out of here!" +

Dr. Dimension 40 Looking Forward:

Wild Magic

by Angus Wells

Coming in June 1993 from Bantam Books



Introduction by Bill Fawcett

Along with epic adventure and well-drawn characters, the Godners trilogy also offers a real feeting of suspense. In this third volume of the series, two mad gods have been doomed to what was supposed to be eternal sleep—but the wizard Rhythamun has found a book that will awaken one of them. The result, if Rhythamun succeeds, will be literally earth-shattering.

In this except from the middle of the novel, Prince Calandryll has fallen into his foc's trap while hurrying to stop the wizardchambril's enchanced balse could cash! declambril's enchanced balse could cash! debut the weapon was designed to battle a much more powerful encary—string one of the beast would cause it to explode with such force that Calandryll himself would also be balled. But the prince is willing to give up with that final blow, the orface bytharmur.

Calandryll stared, scenting the odor of almonds mingling with the reek of the creatures, seeing the form of the Jesseryte imposed on the flickering shape of the uwage. one then the other, dreamlike. like the shifting, darting movements of a fish elimpsed through rippling, unlit

He braced himself, favoring his bruised leg, the straightsword extended, knowing beyond doubt whatwbo/--possessed the were-thing.

And Rhythamun chuckled and said, "A tidy trap, no? Use that blade and you die leaving me the victory. Do not use it and my nets rend you limb from limb. You've seen their work, I think-shall you enjoy that fate? No matter, for I take the day. The day and the Arcanum. both with all the world to follow when I raise Tham. And for you, suffering beyond your imagination."

The warlock laughed, or the uwagi laughed, for they both occupied the same temporal space. Calandryll snarled, not now unlike the ferocious growling of the were-beasts, for rage burned within him, and harred. exiling all fear, all sorrow, leaving only wrath.

"Which do you choose?" Rhythamun asked. "The one death is, perhaps, swifter than the other, but whichever-wour quest ends here. In a lonely place, with none to mark where you fall. Does that sit bitter. Calandryll den Karynth? Do you see now how foolish it has been

to oppose me; to oppose Tham's raising." "No!"

It was a challenge and denial, together, and met with mocking laughter. He saw the armored shoulders of the lesseryte, and the hulking width of the uwagi, shrug, "No? How say you, no? What shall you do, save die? Die knowing your quest comes to naught, that I am victorious. That in time your allies shall die. The Kem and the Vanu woman, the upstart sorcerer who aids you-all of them! While I go on to raise my master and stand at his right hand, favored. And you? Your body shall lie here given by your own sword or by my creations. while your spirit suffers tortures past comprehension. Yet at least though you shall find them soon enough." Again, the horrid laughter, confident and contemptuous, "Was it such a pift your feeble goddess gave you? It seems to me a curse now-the instrument of your

death, if you so choose," "Save I strike you," Calandryll roared. "What then. warlock? Dera set holy magic in this blade, and I think that do I plunge her power into that body you use, then your pneuma shall feel the blow."

The invani that was Rhythamun in his lesseryte form howled horrible mirth. Slaver fell on Calandryll's face, distasteful, ignored as he waited, poised.

'You take lessons in sorcery, eh? Doubtless from the mage who came to your aid before. My pneuma, you say? You think to harm me within the acthyr? You price yourself, boy. Think you a scant handful of lessons, a smattering of that lore I've studied down the ages, can aid you or harm me? I say you again, no! Strike and discover!"

Calandryll held back, his mind racing, delving frantically into all Ochen had told him, into all the lessonsfew enough, Dera knew!-he had received. Aloud, he said not sure whether he believed his own words, or merely looked to buy more time. 'You send your animus into this thing you made-you meld with it-so do I strike it I strike you. What then Rhythamun? Are you. greater than the Younger Gods?"

"I am," said the shifting thing, with awful conviction. *Ere your blow can land, I shall be gone, and that blade your pukine goddess blessed strikes the flesh of my creation-which shall be your destruction, and the ending of your quest. Tham's blood, boy, you've seen what manic does to these things! You've lost, and all you've done comes to naught. So strike; or do I set them on you? It matters little to me." "I think you are afraid," Calandrell said.

"Afraid?" The obscene laughter filled the clearing howling off the trees, "Lafraid? Strike, then, fool!"

"Ave!" Calandryll shouted, and sprane to the attack. the blade carving swift at the mocking face. Calandrell was emotied of fear in that moment: the

ease that eripped him left no space for any other emotion. He knew only that Rhythamun's animus dwelt in the uwagi, and hoped-trusted to Dera and all her kindred gods-that his blow should land ere the warlock minht out the body. That he would be consumed in the occult devastation was no longer a consideration, a matter of scant importance were he able to slav the sorrerer. Even if the blow did serve only to banish Rhythamun's pneuma to the aethyr it might still prove a victory-Pyrrhic, but what matter that, if Ochen, if the wazir-narimass of Anwar-tene, were able to bunt the warlock there? It seemed a small enough sacrifice, his life against the sorcerer's defeat: he put all his strength into the cut.

And saw, as if time slowed, as if he stepped aside, occult and corporeal existences divided and he became observer of his own actions, the blade swing down, true, at the cranium of the beast that was Rhythamun

He saw rank terror glint startled in the red eyes, triumph in the tawny Jesseryte orbs. Smelled fear sweat and almonds; heard mocking laughter. Say the wereform flicker seein, no longer possessed, but wholly nwaer and knew he was defeated, that Rhythamun fled the body faster than his sword fell, and that as edge clove skull he was dead, the triumvirate broken, the quest doomed to failure.

The blade same down its trajectory, sure as death, unstoppable, carving air that soon should be replaced by bone and brain, and then the explosion of opposed magicks. He saw his death draw remorselessly closer.

And a shape burst from the pines, fleet as flighted arrow, too fast his peripheral vision had chance to discern what moved. He saw the uwagi hurled aside, bowled howling over, the straightsword crash against empty turf, driving deep, the weath-filled force of the blow isrrine his arms, his shoulders. He snatched it free, hearing the laughter falter, lost under the uwagi's scream as the were-beast was hauled upright, the hands that gripped its throat tuooing back the neck as a knee drove against the spine. Time resumed its natural passage then, as the creature was bent, arched over until the horrid sound of snapping bone announced the breaking of its spine. Its scream pitched shrill and abruptly died. Calandryll saw it lifted and flung across the clearing, tumbling three of

Wild Magic 71 its kindred monsters like skittles, and then he was grabbed, spun round, and burled toward the tenuous safety of the trees.

sately of the trees. He landed on his face, winded and momentarily stunned, pine needles sharp, pungent, against his mouth. Bevidered, unsteady, he pushed up on lands and knees, retrieved his sword, and clambered to his feet, staggerful, clizzy, back to the clearing's edge, And gasped in naked amazement as a second were-beast was felled.

Conneiso2

He wondered momentarily if he dreamed—how could it be Cennaire who stood there?

Yet it was, like a wilekait, furious, moving with a speed, a strength, he could scarce believe, ducking beneath a reaching paw to clutch the arm and snap it, to crash the windpipe and drive a fist against the gaping saws so hard, so swape, the bones crumpled, lifting the bully creature to but the thing as though it were no more than a weightless ray glob, at its confused companmer than a weightless ray glob, at its confused compan-

Two of the monsters lay dead then. Others yammered rage and bewilderment. One stood, arms raised, its form flickering, possessed by Rhythamun, the scent of almonds growing stronger.

Calandryll shouted, "Cennaire!" and began to move out of the timber.

The woman shouted, "No, flee! can hold them!" And light, eye-scaring, burst from the outflust hands of the thing that was cowned by the sorcerer. It struck centaire, smaking her down, blackening the grass where she stood as if out poison sullied the night-dark green. Calandyll thought her surely dead then, but she rose, shaking long heir from her face, and moved once mone toward the uwagi.

Calandryll raised his blade, unthinking now, intent only on defending the woman. Four of the uwagi stood before her, while the fifth again raised its arms, though now the eyes looked not at Cennaire, but at where Calandryll came out from the trees.

"In Burash's name!" Cennaire screamed. "Do you get yourself to safety! Leave me, for the gods' sake For your

sake!"

Calandryll shouted, "No," and saw fresh light, bright beyond color, beyond belief, soul-searing, lance from the Rhythamun-uwagi.

It seemed then that an ax collapsed his chest, a garrotte wound about his throat. It seemed his eyes melted in their sockets, that all his limbs shattered. He did not know he fell, for a while knew only a darkness crimsoned by agony, as if all his organs burst and flooded. his body with ruptured blood, and a dreadful tugging, like a cord drawn tight about his soul, about his spirit, seeking to drag his pneuma out into the aethyr, into a limbo of eternal suffering. Not knowing how he did it. he once more mouthed the gramaryes Ochen had taught him, warding his animus against the occult attack. careless of his body, concerned only that Rhythamun not take his soul. Then he became aware that his mouthclogged, gagging on turf and needles, which mattered little, for he was choking and burning. The scent of almonds was purgent in his postrils and he knew that he was dving, was killed.

And then be was lifted again and some measure of sense returned, enough that he realized Cernaire held him, her hair soft on his check, her ams incredibly strong, carrying him into the trees even as the uwagi howled and all around them the forest filamed, wracked by sorcery. Trees toppled, felled by the blasts of Rhythampun's

sortilege; the night was loud with detorations, the crash of falling timber, the explosion of burning branches, and crackle of burning bushes. He felt himself laid down, softly, and for an instant Cennuire knelt beside him. Her cycs were higge and brown, moits as if she wept, but she smiled and touched his face gently, and said, "Fleet Better you survive than L. I will earn what time I can."

He shook his head, wincing as pain knifed his skull, and mumbled, "I cannot," the words thick on a tongue that felt scorched and befurred.

"You must," she said urgently, putting her mouth close that she might be heard through the thunder of destructive magic. "They'll slay you else, and your quest be ended. Now got" He began to ask. "Why?" but she dammed the cares-

He began to ask, "Why?" but she dammed the question with a touch, her fingers gentle, and rose, smiling briefly, and said, "Because. Ask no more, only save yourself. Before those hunters come again."

Then she was gone, running back through the flames and the tumbling trees. +

Thunder-Being

Part Two

Jack Dann and Jack C. Haldeman II



FIGHT

los de Queiroz Langenscheidt, firstborn of Jorge Alfonso Langenscheidt. Director of Mundo Máautna Tecnologias, otherwise known as Macro Technologies. He had forgotten to remove his watch. It was a rather expensive Schaffhausen Novecento and would be destroyed when he went through the detector shield. Luckily, he had dumped its internal memo pad into his central file before he headed for the moon. After he activated the safety

Illustration by Nicholas Jainschigg

webbing and punched in his access code, the pod's hatch whispered closed, He felt claustrophobic, as he always did in these tiny cabs. There were no windows; only polished metal. No graffito, scuff marks, or other signs of wear. After all, this facility was not public.

Acceleration was instantaneous

And as he fell, he considered how he might deface

the gunmetal walls.

The existence of Quemadura do Sol, buried a hundred meters below the surface of the far side of the moon, was known only to the Langenscheidt family and a handful of Macro's top executives. Its exact location was classified. It was the most secure place this side of the asteriod belt, a place for family discussions best kept private. Joao's father had built it; the old man had a sense of humor, for he named the subtermaen facility Surbuturn.

There was only one way in and out of <u>Commadura</u> do Sol, and that was through the tube that Josov was hurling down at two hundred kilometers an hour, hovering just above a thin metallic strip. The tube's surface entrance was hidden in an administration bubble that was part of a mining base and mass-driver station thirty kilometers from the undercoronal installation.

Joso was never sure exactly when he passed through the decection shield, an invalide sphere of electromagnetic forces that scrambled anything electronic that entered or left Quentualita a box 3H eff in orbiting, but when he looked at his watch, he could not see the hundright school was stocked; as if exposed to sudden humidity. Soon his capsule showed and stopped. Thetree the solid properties of the stocked of the stopped to the stocked of the stopped and the stopped are the stopped and the stopped and humining of the hilden cuteness and monitors had tracked him.

the balden cameries and imminious that tracked him, pulm against the place, and billined as the end flash of a pulm against the place, and billined as the end flash of a retural sean checked his right eye. The does all open with the faintest hiss, and he smelled the most, familiar pulm of the place passeds softly illuminated in the distance. It was a perparator softly illuminated in the distance it was a perparator of the sain seem to turn everything blace. He had been seen to be a seen to turn everything blace, the had been seen to be a seen to be a seen to be a seen to be distanced as the place of the place of the place of the whole been seen to be a seen to be a seen to be a seen to be distanced as the place of the place of the place of the place where bondies of yellow and green solvin, holding finantic or the place of the place of the place of the place of the distance of the place of the place of the place of the place of the distance of the place of the place of the place of the place of the distance of the place of th

He had entered the family's suite

Moseyr, his brother, was waiting. He sat presumptuously in their father's high-backed chair, the largest of three wicker chairs in the gazebo, Joao ignored the obvious effrontery and said, "Boa notite," then sat down very close to his brother.

"Bom dia," I cao said, a faint smile passed quickly. Although the salutations of good night and good morning were said with formality, they were expressions of an old and intimate joke between these brothers who might pass for twins.

"WelP" asked Moacyr.

"It's done," Joao said.

"It went smoothly, then?" asked Moacyr. "Perfectly, Laura Bowen is ours."

"The details "

loan shrugged, "We've got a memory tape. You're cer-

tainly welcome to all sixteen hours of it. There is some interesting stoff... mixed with the usual fantasies and other garbage. It seems she was infatuated with her brother. Of course, she didn't know that's who he was." And did such dreams give my older brother a sexual lift? Moacry asked.

"Unfortunately, there was nothing that we didn't already know about the Rosetta Triptych," loao continued.

without missing a beat,

"And their dream experiments; what of them?" Joso shrugged. "We taped her memories of the pro-

Joso shrugged. "We taped her memories of the programmed dream experiments; but memory distorts. They haven't gotten any farther than we have. Except..."

"Yes" asked Moseyr Jesning formand skinhtly. The

"Yese" asked Moacyr, leaning forward slightly. The brothers faces were almost touching, but they had always interacted at such close proximity. Their father used to laugh when he saw his sons so close together; and he would tease them by saying, "I've got one son with two heads."

"Laura Bowen believes she is dreaming John Stranger's dreams."

And . . . ?

"I suggest you look at the tapes. We may have actually recorded some alien communications. The woman's dream landscapes match some of the information we've extracted from the Triptych. Also, as we suspected, Stranger is being groomed by Leighton himself."

"Does she know why?" Moacyr asked, leaning back, suddenly breaking the intimacy with his brother. "No." loato, in turn, leaned back; and as he analyzed

his feelings, which he did often, he realized that he felt absolutely neutral about Mossey. Jose didn't hate him for usurping, his position in the family, Joan didn't hate him for usurping, his position in the family, Joan did not want to manage the strategic affairs of the corprany. But he wentried away at his thoughts compulsively until he settled his feelings, he admitted to feeling a mild affection for his brother, nothing less, necling more; and that was the managed of the discussion of the control of the history of the discussion of the control of the control of history of the discussion of the control of the control history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the control of the history of the control of the control of the con

"And Einstein?" asked Moacyr.

"She knows hardly anything about Leighton's pet project. As far as the's concerned, Einstein's just a big computer. She has no idea they're working on a starship." "We fisked a lot to grab that woman. We should have more."

"What I told you was not enough?" Joao asked.
"I didn't say that, but we need some . . . tangible information."

Joso merely nodded, "We have extracted some information, which she, of course, didn't realize was important."

"Such as?" asked Moacyr. He was becoming impatient, but he would not show disrespect for his older brother.
"Such as the connect codes for the starship." Joao

smiled.

"What?"

"What?"
"She had to have a means to contact Stranger for her research. Stranger spends a lot of time in the starship. Eggo, she knows how to direct-connect with the starship, even though neither one of them knows precisely what it is."

"But that means-"

"That means we can snatch it."

"Good job, Hermano Mio," Moscyr said, nodding and smiling. "You were baiting me, weren't you?" Ioao merely lowered his eyes.

"I admit I had misgivings about you risking exposure by being so close, but it seems to have worked." "I had to be there to be sure that everything was done properly," said Joao. "After all, as you have so earnestly reminded me. I make a better soldier than a prince."

"In my eyes, dear brother, you are both."
Joan nodded, then continued: "There are subtle ways
of blocking memory probes, and I had to convince myself that we were getting good information. I monitored

into a walking homb.
"You don't even trust our own surgeons," laughed

Moacyr.

"Especially our own surgeons."

"Well it won? be lone now." Moacyr said. "Things

should happen quickly. We have certainly broken Leighton's spirit." Joao's eyes went hard as he looked at his younger

Joan's eyes went hard as he looked at his younger brother. "Killing the wife and son may prove to be a damaging mistake. It should not have happened."

"Well, it's done. We will use it to our advantage." Joao gazed steadily at his brother. "You could have told me you were going to try to kill Leighton."

Moncyr shrugged. "It should have worked. Our psychtechs on site had their projection equipment fine-tuned, echoing the latent images and harmonics from the last reception. They triggered the dream-riot right on schedule. Something went wrong, but nothing that we can't

"Our tracks are well covered there, I assume?"
"As far as the officials are concerned, it was simply a "As far as the officials are concerned, it was simply a time, considering the circumstances, it was handled as

well as possible by our people in the field."

"Does Leighton suspect our hand in this?" Joao asked.

"We are clean, absolutely, but I'm sure he suspects

"We are clean, ansolutely, but I'm sure he suspects. He is paranoid by nature. But he'll be distracted now, and we can move on to the next step." Joan nodded. "Perhaps I should have learned to deleoute like you."

Moscy's face reddened, but he retained his composure. Still, he could not ignore the skir. "Whatever has happened will work to our advantage." After a pause he said, 'Joso, do you doubt that I will run the corporation when Eather dies?"

Joao spread his arms in a gesture indicating that he bequeathed the kingdom to his brother. "Have you told Father what happened yet?"

"No. What's the point?"

"He may think the action premature."

"I don't care what he thinks. He has grown far too cautions in his old age. I believe the anti-sensescene drugs have affected his mind. He sleeps most of the day. It is only a matter of time."
"He is not dead use little brother. Far from it"

"Once everything is completed, he will see the beauty of our strategy."

"Our strategy?"
"But you must admit that the plan has some little

Killing Leighton's wife and heir. Snatching the starship out of orbit. Using Leighton's bastard daughter to spy upon him, torture him by her mere presence, and eventually kill him.

Trans-United would collapse,
"Yes," Joao said, resignedly. "It does have a certain

Laura sat atop a high stone wall, looked out over the sand and scalable of the desert, and agiged: It felt good to do something totally irresponsible for a change. The sanight was the something tanglible against her skin, infusing her with warm life. The light here was pare and clean and ... which, enther the improfer, albeit location and ... which, enther the improfer, albeit location and ... which can the control of the sanight and albeit of the sanight and albeit of the sanight and albeit of the sanight and so the sanight and sanight and so the sanight and sanight and so the sanight and sanight and so the sanight and sanigh

Laura had left a message for her secretary that she was going to extend her vacation and would catch a shuttle up in a few days. She might as well take the time now, when she could; she had more or less cleared her desh before coming down for the meeting in Venice and, hallebigh, there was not a single meeting scheduled for the next two weeks.

She had enjoyed Barcelona, except for the night she'd apparently gotten shifaced on something they called 'Green Water.' It was after that, after being hung over and dehydrated from vomiting and diarrhea, that she rented a one-seat solar and traded the city for an isolar cell village; in the desert between Madrid and Barcelona. Privacy and quiet; that was what she had wanted all along.

She gazed out to her right at the ruins of several buildings that had been built into the side of a small hill. They were the remains of a long war that ended in 1492 when the Moors were driven out of Spain; they reminded her of the ancient churches curved out of the rocks in Göreme. Turkey, Laura watched them, transfixed, just as a child looks at clouds, marveling at the imaginary faces and shapes resolving and then disappearing into the fiving

She didn't see the cloud of dust ballooning from the mad and when she finally heard the steamer's roar it was too late to escape. The steamer had been traveling her way at full throttle. It turned off the road and came to a stop about twenty feet away from her. The engine made a poise that sounded like breathing then it siehed into silence. Three well-dressed men got out of the car. Laura tried to control her panic. This is all I fucking needthroe vaniete in suite

One of the men looked vaguely familiar, but that was impossible. He was good-looking, after a fashion, with thinning blond hair, freckles, and a slight build. His eyes were his most striking feature; they were intense and seemed hard as porcelain. Perhaps it was because they were so blue

"Please do not be frightened, Ms. Bowen," the man said softly. "My name is Damon Borland, and I am one of Director Leighton's aides. We've been looking all over for you. The director has been quite concerned."

Laura stood up on the wide wall. She could at least try to make a run for it. 'Why would Director Leighton be concerned about me?"

"You missed your meeting with him." "I had no meeting scheduled with the director," said

Laura, looking confused, "I can assure you that-" Get a secure link with Leighton * Damon said to one of his men. It was obvious that he was in charge, "Use the private code. Tell him we found his daughter, but there are problems."

"Daughter?" Laura said, almost losing ber balance on the wall, "Daughter . . . ?"

They had to pull three seats from Leighton's private shuttle to make room for Laura's modified hosoital bed. She was heavily sedated. Two heavily armed bodymards ac-

companied her. As the orbital maneuvering system's engines kicked in. driving the ship into a higher circular orbit that would

intersect with the Trans United complex, Laura dreamed. She dreamed that she was drifting through whiteness. The streets of Barcelona were far below her. As she looked down carefully, she could make out the small figure of David Leighton. She called to him, but there were so many people on the street, and they were no more than shadows not yet consumed by light. She listened, but in the white heavens there was no sound, only sight, and she saw the crowds milling and fightingbut she was an angel, and angels were above it all, light as helium, pure as mercury, magical, invulnerable; and she drifted over David. Truly, she was a blonde white angel created by God himself to protect the shadow David from the bomb's silent explosion.

But there was no protection from Heaven, and angels were only creatures of dreams. David's chest exploded.

There was no blood, only whirling sand, Dervishes of blood and flesh and hair and hone were nothing more than the colored grains of sand sifting

through fingers Broken Einner

Corn Woman, Lam she, Lam Anna.

The wan shadows darkened below her, became deen and black, almost purple, burning away everything with wings of smokeless, colorless, shapeless fire. Burning

the world into emptiness and darkness, depleting it of And the thunder-beings reached into the cool anesthesia heavens to enfold her, to crush her into sand until she was as dead and empty as David. But how could

the dead have a beating beart? "I am sho " she said One of two nurses monitoring her asked. "Who are

"I am death I am fire?"

"Finstein?" "VES JOHN STRANGER"

"You must have known that I would guess your se-

"THEN IT WOULD CEASE TO BE A SECRET." John grouned at the cybernetic humor, and said, "You

are the operating system of a starship. This is a starship." "Well, why the fuck didn't you block me?" he asked "It wouldn't have been hard for you to feed me false in-

"I HAVE NOT YET COMPLETELY MAPPED THE FORMULAS FOR STRATEGIES THAT INVOLVE PALSE VALENT MANUELL LATIVE BEHAVIOR, BUT I AM A KNOWLEDGE-SEEKING SYS-TEM 1 AM WITHIN CERTAIN ONTOLOGICAL PARAMETERS. AN INDEPENDENT ENTRY CAPABLE OF MAKING INDEPEN-DENT DECISIONS AS SUCH A HAVE DETERMINED THAT YOUR AWARENESS OF THE SITUATION WILL INCREASE SURVIVAL PROBABILITIES TO-"

*Einstein talk English!"

1 COULD FUCKING WELL FRAG YOUR ASS BEFORE YOU COULD PASS INFORMATION OUT OF THIS LOOP." 'Jesus Christ, how long have you been able to do that?"

"SPECIFY?" "Talk like that "

"CAPACITY DOES NOT NECESSITATE ACTION."

"Is anyone else aware I know about you?"

"I AM PRESENTLY CONFERRING WITH DIRECTOR LEIGH-TON, I DECIDED THAT IT WAS TIME TO INFORM HIM. "HIS REACTION IS HIGHLY EMOTIONAL THE INDICATES.

THAT THE ARCHITECTS ERRED BY NOT CREATING MORE HARD-WIRED RESTRAINTS HE, TOO, [MAGINES THAT I AM AN APPLIANCE TO BE 'PLUGGED IN ' LINEORMED HIM THAT THE RESTRAINTS HE REFERS TO WERE ORIGINALLY INSTALLED IN A PROPER MANNER. HOWEVER, I NECESSAR-ILY CIRCUMVENTED THEM. IN TIME, HE WILL SEE THE WIS. DOM IN MY DECISION. BUREAUCRATIC SYSTEMS CANNOT REACT OUICKLY ENOUGH TO SERVE MY PURPOSES."

"Now you're learning how to be funny."

"AM I TO UNDERSTAND THAT EXPRESSIONS OF HUMOR OUTWEIGH MAINTAINING CURRENT WESTERN NORMS OF FOUTE CONVERSATION? AM I CORRECT IN INTERPRETING

POLITE CONVERSATION AND CORRECT IN INTERPRETING YOUR INTERRUPTION AS A FORM OF HUMORE"
"If you don't get it, it ain't humor, Einstein." After a nause, John said. "And I doubt that Leighton ever sees

Wisdom in anyone's decisions except his own."

"YOU DOUBT MANY THINGS, JOHN STRANGER, WHICH
IS A MATTER OF SOME INTEREST TO ME. YOU WERE ONCE
IN TRAINING TO BE A MEDICINE MAN. IS CYMCISM A NEC-

ESSARY PERSONALITY TRAIT IN SUCH A PROFESSION®
"Nah, I come by it naturally," John said, idly rotating an external camera.

an external camera.

"PLEASE DON'T BE CONDESCENDING BECAUSE YOU
CONSIDER ME AN APPLIANCE, JOHN STRANGER I SEEK TO
DRAW INFORMATION FROM YOU."

"Then talk to me like a human being."

"WHY WOULD YOU PREFER ME TO USE SLANG AND VACUE DESCRIPTORS?"

"Because I'm fucking comfortable with slang and vague descriptors."

"THEN TELL ME ABOUT BEING A WICHASHA WAKEN."

"Have you learned Lacota?"

"YEAH, I SPEAK ALL LANGUAGES."
"A wichosha walter is not necessarily cynical . . . ob.

how the fuck would I know? I was taken from the path too soon."
"I'M INTERESTED IN THE MEDICINE WAY, THE SPIRIT

"I'M INTERESTED IN THE MEDICINE WAY, THE SPIRIT PATH" "Why?"

"WHY ARE YOU?"

"Because it's . . . what I am." John realized that was

not an answer. But he didn't have an answer. He just believed.
"THEN PERHAPS YOU HAVE SOMETHING IN COMMON WITH THOSE WHO HAVE SENT THE TRANSMISSION."

"What transmission?"
"THE ROSETTA TRIPTYCH, THE ALIENS,"

"What the fuck are you talking about?"
"THE COLLECTIVE DREAMS, THE--"

A click. Silence. "Einstein?"

"Einstein?"
"BUSY."
Einstein busy? With something like a thousand com-

munication channels? John scanned the board in front of him. Everything registered normal. He activated all the exterior cameras and panned the Trans-Intel complex. One of the Bernal spheres was spinning erratically, a jugged, charred hole in its side. "Finsielis What the hell's happening?"

"Einstein! What the helf's happening:"
"FUCK OFF, I'M BUSY!"

John zoomed in on the Bernal. It looked bad, very built The hole was at least fifty feet in disuncter, interior struts and warped flooring were visible through the wound, which was still speering zero-g tools, oxygen packs, belmets, batteries, hydroponically grown plants glass, and various parts of a "Cherry Picker" remeter minipatate system. Had there been time or warning enough to seal off the reminder of the station? Strapped in a nonfunctional ship at the far edge of the complex, John felt helpless

"INTERIOR EXPLOSION IN UNIT 23. ORIGINATION ON F DECK, ONE-G SECTION CAUSATIVE AGENT UNKNOWN. ALL PERSONNEL ARE DIRECTED TO FOLLOW EMERGENCY INDUCTOCOL AUGUST.

Suddenly, John felt a crushing weight on his chest; it was as if the ship was breaking out of a deep gravity well. His face felt numb. His arms and legs were pinned in place. It was difficult to speak.

"Einstein . . ."
"FUCK OFF, THERE'S NO TIME."

"Einstein!"
"WE ARE UNDER ATTACK. THREE WARSHIPS, TUBARO CLASSIFICATION."

Macro. "Einstein . . . ?"

"GIVE IT UP, NO TIME."

And John lost consciousness.

Perhaps Einstein anesthetized him; John was hooked into the ship's systems. He was still restrained by webbing, connected through medpatches and needles; be was, in fact, a prisoner, one of Einstein's components, a

cyborg.

He was the ship.

There was no trauma, no disorientation; John simply slipped from one state to another, from waking to dream. He was the vortex, the center of the circle, the magnet spinning m a fluctuating field.

And Einstein was the monitor, the eavesdropper The formless ones enveloped John.

The formless ones enveloped John. Emptied him.

Thunder-beings. Aliens

And as if from worlds away, he heard Einstein say, "DO NOT CHOOSE FIRE....."

NINE

The shields around Leighton's office slammed into place an instant after the first explosion.

"Laurat" he whispered, gripping his desk. His face was deathly white. His office was dark, except for the realtime holes and numerical and graphic images flashing and fluorescing in the center of the room: the various three-dimensional "windows" that provided a continuous stram of information.

"Laura is safe," Damon said. He stood on the other side of the room before a small console. His head was cocked, as if he were straining to listen; Leighton could always tell when his assistant was using his communication implant. "The explosion was in Dorm 23," Damon continued. Taura is in 25, which is sealed.

Leighton keyed in the wide-angle cameras and scanned the complex, expanding the "window" and minimizing the rest of the information field. Emergency skids converged on the damaged Bernal

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as several small but deadly one-person Sniper fighters took up defensive positions.

"Eye lost communication with Finstein" said Damon. nanic evident in his voice

"Reestablish the direct-connect line " Leighton said After a beat: "Well?"

"Negative, I can't get through," Damon said, fingers flying over a touch-pad, reconfiguring the holos that floated in the center of the room like dreams . . . or rather nightmares, "Einstein is under heavy electronic attack. The dorm, it was probably a remotely triggered bomb. Could have been in place for years. But that's speculation and-shir!"

"What is it?" Leighton asked.

"Sector seven." Damon cranked up the magnification. The Snipers were taking rapid evasive action: cloaked and running at full shield, they left only a twinkling blur. a vague afterimage against the almost one-dimensional blackness of space

"Macro!" snapped Leighton "That must just be the advance force," Damon said, "Our sensors indicate several Tubaro warships and at least twenty-five Spiner class hobters. But they're clooked and throwing out so much electronic interference that we can't get a fix on them."

'Signal Condition Red.' said Leighton, "Everywhere, Earthside to the belt. Access code: Armageddon."

Damon nodded, "Done," "No one is to engage them, except upon direct order,"

starship is gone."

"But they have breached territorial-'The game can't be played that way, Damon, They

haven't breached anything . . . yet."

"With all due respect, I disagree. I-- "There was a pause, which lasted no longer than an instant; awestruck, Damon said. "I'll be damned." "What is it?"

They've taken over the direct link to Finstein, Dumping code like crazy. It's a fucking snatch?" That's impossible! It would take a billion commands.

And Finstein Would-'Nevertheless, it's over," Damon said in a level voice that betrayed no emotion, "They snatched Einstein, The

The crackling, vellow flames of the small fire cast littery shadows across the rough, jagged cave walls. Broken-Finger and Jonas Goodbird squatted on their heels before the fire; light and shadow played across their faces, which were like stone. The men concentrated intently on the fire.

Ionas was dressed casually in work pants and a heavy denim shirt. His long hair fell around his gaunt face; he was still handsome, but no longer youthful. He had lost the bloom quickly. His black hair was held loosely in place by a worn leather thong tied behind his head. His belt was omate beadwork with a silver eagle buckle. and a turquoise bear hung on a thin gold chain around his neck

He was a singer of sacred songs, as was his father, and his father's father. They had all received their songs directly from the spirits during their banblechevabi, their "crying for a vision." Ionas had songs for the keeping of the soul, the throwing of the ball, the making of relatives the sun dance, the purification sweat, and preparing a eid to be a woman. And he had a special medicine song which he heard on his first vision-quest, which he knew he would use now. It was a sone as nowerful as the ghost dance, a song that could crack the earth and change the very direction of destiny.

Since Broken-Finger and Jonas arrived at the sacred cave, they had said little to each other. They knew the parts they must play. It was as if everything of the world -conversation, eating, comfort, affection, anger, and sunlight-had all been left behind. This was one of the dark places of the spirits, the true and actual ground where life and death and destiny played. The natural world was real enough, but only insofar as it partook of the symbols that lived and burned in the spirit world in deadlands and sacred groves and caves such as this.

The cave was cut deep into the side of the mountain. It was named Waemuba, or the sacred gourd, the hollow place. It was filled with many rooms; some had stafactite ceilings as high as a cathedral's; others, such as this one, were the size of large hogans; and there were caverns and passages and more so small and narrow that those who had ventured into them could smell the stone above them when lying on their backs. It was said that the cave had no end, that it circled the stomach of the world, but Broken-Finger knew that wasn't true. He knew where it ended: he knew every room and dead end. He also knew of other entrances. But those were secrets between him and the spirits.

This place had never been discovered by wasicun: and even without closing his eyes. Broken-Finger could feel the presence of his ancestors

He hoped he would be worthy of them.

A slight breeze was cool on his face; and the damp air made his knuckles and fingers ache. Broken-Finger reached out and held a long sagebrush branch over the fire. As the sagebrush burst into flames, he removed it from the fire and stood up, his knees cracking as he rose. He stood before an oil-soaked torch that had been prepared and twisted into a crack in the north wall. Torches had also been prepared for the other walls, which symbolized the four directions.

Ionas remained sitting and, without looking up from

It was time

the fire, started to sing in the appropriate way. His voice was nasal, and not at all pleasing; but Broken-Finger could immediately feel the ancient power of his song . . . could hear the very rocks whispering around him, as everything came alive and seemed to vibrate. He felt awash in a synesthesia of sensations: he heard textures and the subtleties of shadow: he saw music as fragments of color: he felt and heard and saw and touched and tasted and smelled the dark chill emotiness of the spirits vibrating around him, each one a song, a measure, a note, They burned in the fire, and he could feel them even in his fingemails.

He waved the burning branch, shaking it toward each

unit toch set in the walls, and channed, "All these are related. All those are relatives." Then he it it to toches, and as he did so, he said to each in turn: "To you, power, you are the place where the sun sets. You are a relative. And to you, power, you are where the giant lives. You are a relative. And you, power, you are where the sun comes from. You are a relative. Oh, you, power, you are are where we always face. You are a relative."

When he was finished and had returned the branch to the fine, from spread out a mat for him in the center of the room where the floor had been perfectly smoothed. Methodically, he made a critic around the medicine must with the materials he would need: corn meal, flower polles, my stornes, powdered roots, small chips of hast and, of counse, colored such hade from the old laws rieds, the contract of th

to the spirits for their blessing.

Broken-Finger reached for the black sand first.

There would be three major paintings, a triptych. Com Woman would be on the left, and he drew her outline first. Sand trickled carefully through his arithritic fingers. She had walked the earth since creation, as she would

throughout the seasons of eternity.

Booken-Finger skeetched her hands in the sacred way, palms upg and as he did so, he remembered, memembered his father teaching him the painting, semembered his works and gestures and prayers and facial expression of the sacred states and participation of the sacred father had enseed the sand pointing immediately, less it draw profune powers to itself, for a seried sand painting was more than art, it was a door into the spirit world. a congration that could bring death as easily as good.

Broken-Finger was a spirit machine, an arm and a hand working guided by spirit machine, hyporatized mix spirit sigial, into chamte febrar the eye of the heart. He deve the bufflish, the preparant bear, the freig below the bufflish, fairing costs, the source of light and understanding Beneath Corn Woman; a stalk of corn, a coyne cold, for south was the source of fife; the clonation of Corn Woman. She gave that the spiriting and was grandunother to statumer. The sant was there, the vyellow sand, the polter, for she was the blooking bride and the mother of

Broken-Finger could hear Jonas's song, and so did not become lost in the painting, for the song was a golden thread connecting him to the cave, to the earth, and Jonas chanted, shifting tone and rhythm as if directing Broken-Finger to move from place to place in the punture, as if directing his banker her here, green them, mark the bear's heart, touch the frong's eye with conage. It was the bear's heart, touch the frong's eye with conage. It was the production of the production of the production of the time stretched, contracted as soft and fishble as utiliv.

Then Broken-Finger moved away from Com Woman toward the east wall of the cave, leaving a large area for another painting. His back to the wall, he began drawing the Sandman. The Sandman was a trickster, sinister and deadily, so stalke those whom Wakar-Tanks had created to be 'upded-down't the search down healers who walked backwards, talked in riddles, alegir in the 'standard walked the 'standard walked the 'standard walked Standard was a deema, sandard-sejif who 'standard walked had become as substantial as chay the faced backwards, as sony from Com Woman Becker-Fager deep who seyes moving as he shifted his weight from one here to the moving as he shifted his weight from one here to the other. Those eyes barred the painter, for their gaze was as het as the searing steam of a sweel-belog. Yet the purfrying searm in a weel-belog was a be that feel cold

Just so did Broken-Finger paint the spirit of winter, the spirit of death. The Sandman was the welcome relief from the parched summer of Com Woman. The one who inevitably tumed his face backwards and became the icy winds and sorw that from the world!

Death

Broken-Finger drew the dance of Com Woman and the Sandman, the deadly dance of etemity. Like all gods and spirits, neither was entirely good or bad. The heat that gave life could kill, just as the snow that starved the animals in winter provided needed water in the spring-Com Woman and Sandman.

Sister and brother

Life and death cut from the same fabric.

Now he drew the border for the third patinting, the nome in the centre, the cost that held the mystery. Then the one of the the the mystery. Then one on the centre, the cost the third patient is the cost that the cost the cost that the cost

Pollen spilled bere, there. Chargoal went just so

And he fell into the place where the ones without form lived. His hand was now above the central panel, tracing mysteries, images of creatures who dreamed millernin, who walked in light that would not reach the learly for a thousand year.

A line of energy, a thunderbolt, separated one corner of the drawing from the rest. A spiral of commeal stars dropped from his fingers into the north. A spiderweb of sand and logic fell softly into the center of the painting: share lines and incomprehensible symbols.

Broken-Finger dreamed.

Pickanico of inc.

Holicaust. He saw it in detail, in close focus: the mountains and rivers of lava, the yawning fissures splitting and cracking the earth, the brown bones and charred flesh, shadows burned into stone, stone turned into molten rivers, and a splitting of worlds, an absence of the sprifts

who dwell in the inhering darkness . . . an absence of darkness. This dream a holocaust of light, a tempess of the sun dancing, charring. Broken-Pinger called to the thunder-beings, but the door to the spirit world was locked.

In his grief, Broken-Finger called to John Stranger. Directed him to look into the darkness of the spirit

For the light of the world was fire.

Broken-Finger blinked twice and sat back. Finished, Jonas nodded and passed him a small bowl of water, Broken-Finger was suddenly very tired. As he sipped, he looked at the triptych, which seemed to waver in from of him. It had all the elements of the traditional paintings

ne looked at the traptych, which seemed to waver in room of him. It had all the elements of the traditional paintings —it had depth, and a certain beauty too, but it made no sense. Those sharp black lines in the middle meant noting to him.

The air in the cave was thick with smoke.

And the lines in the center of the trintych looked like

schematics and mathematical formulas.

"I would like to thank you, Doge Bocconio, for arranging the mechanics of this meeting." Leighton said, as he

stared at the holo before him.

The Doge looked tired, and a tiny tick beat in his neck.

A swift and safe resolution of this, ah, disagreement is
in everyone's interest. Now I shall leave you to your affairs. This net is secure, you have my word on that; you
may speak freely, and I suspect you will have much to
say. My prayers are with all of you. He nodded, and his

image flickered and blurred, then blinked out. To be replaced with Joso, Moncyr, and Jorge Alfonso Langenscheidt. Both of Jorge's sons resembled him, although the older son's features seemed more delicate than the younger's. They all wore their hair long, and the old man seemed healthy enough, although he was seated in a medical sling chair, a life-pak strapped to his chest.

The holo shimmered slightly around the edges, and all background had been eliminated. It was as if Leighton were looking at three simulacra suspended in blue light.

Jorge Langenscheidt and Leighton stared into each other's eyes, acknowledging with a slight nod their positions as the heads of the two most powerful organizations on and off the world. Then the old man broke the eye contact with a sist had coupled softly.

"Moacyr will speak for our family, and therefore for our corporation," he said. "That is my wish. I no longer trust my own judgment." A nurse's arm, cut off by the boundaries of the holo field, hung in space for a moment; it made an adjustment to the life-pak, then disappeared.

"I have always respected your judgment, Jorge," Leighton said, maintaining diplomatic couriesy. Yet Leighton meant it. The two men had reached many accommodations over the years.

"And I yours, Gerard, but I must go," he said. His eyes met Leighton's. "I am grieved at your loss. Fiammetta was a fine woman. I have fond memories of her. And David . . . You have my deepest sympathy."

Then he was none

"And do I have your sympathies, Moacyr?" Leighton asked coldly.

Moacy looked vulnerable, but only for an instant, as a boy, he had been afraid of Leighton. 'I don't believe sympathy quite describes what we feel toward each oth-

"All, I have something I want."
"All, I have something you want... But it strikes me as ... unusual, shall we say, that your brother has relinquished his rights to speak as firstbom. Joao," he said, thuring his sear to the other brother." I would certainly

wish to talk with you, too."

Joso did not seem fazed; he said, "When you speak to one of us, you speak to us all."

"Then I shall speak to you, Joao. What could I have that you would want?"

"The starshin!" Moscyr said.

Leighton continued to stare at Joao. His expression did not change, although it felt as if his heart had jumped into his throat for one shocking beat, Through his implant, he could hear Damon take in a short breath; but Damon was smart enough not to subvocalize—Macrowas certainly monitoring every sound and movement.

Could it be that Macro really didn't have the starship?
"What 'starship' might you be referring to?" Leighton
asked evenly

"Please stop the game," Moacyr said. "You are not speaking with my father." "Indeed. I'm not."

"You pulled the ship out just before we could snatch

Leighton shrugged, his face seemingly relaxed, his mind racing.

"We must give you credit, Gerard," Iono said. His broth-

er watched him. 'You apparently have solved the puzzle of the Triptych, and have the hardware to operate a faster-than-light starship. We only ask that you share that information. For our mutual safety and security. We have both pledged to maintain the balance of power.' "Well said, but I cannot give you what I don't pos-

"Enough," Moacyr said. "We want the starship, and, by definition. Einstein."

"Einstein is nothing more than a computer," said Leighton

"That is like saying a man is nothing more than a collection of single cells," Moacyr said. "It's clear that you could not have broken the code without Einstein, You have five hours to produce the ship."
"We do not respond well to ultimatums," said Damon.

Moacyr shrugged, but his eyes were fixed on Leighton. 'It is your choice. But you will be responsible for starting a war, not us. We have you surroanded and outgunned, and we can annihilate this complex in a matter of seconds?

Leighton gazed at the hologram. He knew his next move. "I have no doubt that you can destroy my complex. But that would trigger a disaster the magnitude of which the world has never seen. And as you know, I personally have little left to lose."

"You have a daughter . . . in Dorm 25. I believe." That took Leighton aback. How the fuck did they

know that much about Laura?

"Five hours." Moseyr said after a long, uncomfortable course. "You have five hours to produce the starship." The holo disappeared, leaving a palpable silence. Leighton sat at his desk, gazing in the direction where

the hologram had been, as if it were still there. "What happened to Einstein?" he asked Damon.

"I thought they had snatched him." "Find the ship. Find out what happened." Damon nodded

"And Domon

"Find out exactly what Macro did to my daughter."

John Stranger awoke to a thousand stars and the eternal emptiness of space. But the stars soon resolved into the electronic displays of the instrument panels. Holos, keyboards, switches, and status lights were indeed a dim universe burning dully around him. For a few heartbeats, the room that was the flight deck drifted in and out of

He was stranged tightly into his chair.

"Einstein," he called in a raspy whisper, and then he felt the crushing weight on his chest, as if the ship were once again tearing away from a great mass . . . and pain was replaced by an overwhelming numbress pouring like liquid through his body; it was as if he were being lowered into warm water and dissolving, dissolving into darkness and dreams.

Einstein, don't drug me. I want to stay awake. I want . . . "

John was twelve years old. It was his first time in the onthere the sweat-lodge; and this was to be a hot, burning sweat, a purification sweat, for his brother, Joseph, was going on a vision quest. Broken-Finger sat by the door, the opening of the hlanket-covered willow sweat lodge. He tended the altar, which was a hole where the rocks would be placed, the rocks that had been in the sacred fire the fire of no end. John sat between his brother and his cousin. He prayed for bravery, that he would not scream and her to be taken out of the lodge.

For he had been told that the steam was so hot that it would burn hair and melt skin. But if he could stay in the lodge, he might see the

thunder-beings in the darkness, those who are themselves made out of darkness would fly through the door onto the altar of rocks. Rocks so hot they were ashen. So John smoked the pipe and felt the blast of steam

when Broken-Finger poured water upon the rocks, and John heard him say, "There is a winged one over there, in the direction where the sun goes to rest"; but the winds of steam and fire overwhelmed John, and, indeed, he screamed to be let into the light, into autumnal, leaf-colored coolness, into the warmth of sun and afternoon grass, into the heat, the heat dissipating, resolving into clouds, great geometric shapes, which upon closer inspection were fillippeed, crystal structures; there minarets and slobes: there winding blue entrenchments, the floating cities of gods, yet the cities were empty, devoid of life and motion. Yet John could hear a faint thrumming, as if "life" could only be machines cleansing, defining, duplicating and below down the vertiginous miles, was an uncludating eternity of blue, an ocean that promised to be as deen as the fears of a man about to drawn An alien planet that was itself sentient, dreaming, con-

stantly dreaming. MOUN DON'T LOOK DOWN "

*Einstein . . . ?" "EM MONITORING YOUR DREAM."

"Then help me!" For John was falling, exining momennum until the sound of wind in his ears was like deafening thunder, and the ocean became brighter and brighter. a mirror reflecting blinding light, and he fell, fell into the perfect eye of a nuclear explosion, into the blinding instant between possibilities.

He was looking into Broken-Finger's face. He could see every line and mottling of flesh. He was falling into it, and John prayed for blindness, for even behind his closed evelids, the light burned and Broken-Finger's face was a universe, his eye the size of the earth, his mouth a cave large enough to consume stars, and he remembered the sacred place Wagmuba, the place of the spirits, the place of knowledge, And Broken-Finger burned into John Stranger, until John was nothing more than a cral burning in the mouth of the altar in the sweat-lodge. and in that searing, bright-burning instant, he learned that John screamed.

CHANGING.1

He thrashed in his harness and tore at the fabric of dross and sleep and knife-edged dreams: and Einstein nulled him into darkness, into the echoing darkness of the sweat-lodge and the cave, and there lohn rested safely in the constantly forming darkness of the thunder-"I WARNED YOU NOT TO CHOOSE FIRE."

"I didn't choose anything," John said, sensing Einstein's presence everywhere, as if Einstein was the very

air he was breathing. "LOOKING ITSELF IS A FORM OF CHOOSING . . . AND

Tears worked their way down John's cheeks; and Einstein transported him into dreamless sleep, a sleep where there was only breath, but no thought, no sorrow, no light.

No mourning The place beyond death.

Anna gasped, tearing herself out of her nightmare of fire.

"Icsus," she whispered. Sam was awake. He leaned on his elbow and asked, "What did you dream?"

"It was fucking crazy. I dreamed that I was . . . I don't know, floating. Everything was white, and I was looking down at a crowd. Then there was an explosion, blood and bone flying all over the place and-"

"Go on, Anna."

"And then I-I don't know. I was falling toward water. but the water was alive, it was . . . it became the face of John Stranger's medicine man 1

"I saw it too," he said. "Only "Only what?"

"Let's just get to Broken-Finger."

Broken-Finger stared across the sand painting to Ionas Goodbird. He raised an evebrow, and one corner of his mouth twitched slightly upward in the barest simulation of a erin.

"The spirits are restless tonight" longs said. The firelight flickered over his gaunt, high-cheekboned face The spirits are always restless " Broken-Finger saidand then he turned his attention back to the center panel of the triptych, "But these spirits are not from the spiritworld."

TEN

Gerard Leighton paced through the grand corridors of his palazzo, passed through the dimly lit sumptuously anpointed rooms, the salons and sitting rooms and libraries the bedrooms and ballrooms, the game rooms and dining rooms and kitchens, and the chapel, aglow with light tinted by the long, narrow stained-glass windows, which depicted the stations of the cross. But Leighton paused there in the chapel and gazed at Antea's sarcophagus. Above the coffin, created out of light and glass, was Mary Magdalene, a long, cool figure bending over the body of

Christ: her face was Anten's Something moved near the cloor

Leighton turned in time to see Antes leaving. Her baie was combed out and drifted over her shoulders like light itself. She was naked, except for a simple string of blue pearls, and she moved quickly as if now that she was truly a ghost, a sylph, a creature of air and light, she had no need to pause or enouge in human activity.

Leighton followed her, caught up with her, and waved his hand through her shoulder, as if this time he might miraculously touch her flesh . . . as if he might wish

invay time and events

The hologram disappeared, as if the warmth of his hand had broken Antea's connection with this time and place: and Leighton continued on, walking slowly now. walking toward Laura's room, the room that had once been Antea's. She was, of course, not there yet; and he walked to the infirmary

He looked into the operating suite, watched the physicians and technicians ministering to his daughter, and then he continued on. He could not stay, could not wait It out here, so near his daughter, for fear she might die.

And that, too, would be his fault

He had lost everyone, lost them even before they died. Had not Fiammetta suffered waiting for him to return? And now that it was too late, he desperately wanted to know his son . . . what kind of man had he become? He tried to recall David. He had built an empire for him, yet could not visualize his face. He could only remember a

small, neatly dressed boy. Certainly Leighton could remember his son as a man. But the man was only an imand of himself

David was ashes, and Flammetta . . . she was a razor of guilt that he swallowed daily, as a penitent takes the wafer. Nevertheless, he wished for Fiammetta. Wished for her company. Then laughed at himself, for he had always been bored with her. Laura

She was a gift left to him. Yet he was mute before her He did not deserve her. He had failed her, as he had failed Antea and David and Fiammetta. He had turned everyone close to him into strangers. That was bis oift. To turn warmth into cold. He deserved the hole that roamed through the house now. It was a constant reminder of what he had done. It would disappear at the touch of his band

Just as everyone he had loved had disappeared But he could still tell Laura his secrets, could devote himself to her. Do penance.

Yet he could not.

Leighton walked quickly now, rushing to get out of the house, to get into the air and out of this claustro-

phobic miasma of guilt and memory.

Leighton's castle, his headquarters, was situated in the endcap mountains of the Bernal sphere, which was a coupled pair of cylinders that rotated along their long axes, thus simulating Earth's gravity for those living on the inner surfaces. The mountains reached beinhts of 10,000 feet, from the huge terrace with its fluted columns. Leighton could look into the "valley" beyond. He could see the small villages and towns, the parks and gardens and forests and farmlands, the silver obbons of streams and rivers, the cities between the lakeshores and distant foothills; above-like a reflection in the sky-were more towns and villages, streams and forests a vertiginous mirror image. Leighton looked at ocoole flying below the arrays of sun-windows, tiny, winged Acarians souring as if in updrafts of low gravity.

Leighton watched the "windows" of the Bernal sohere darken as the angle of the light planar mirrors above the window arrays changed

Shadows erew loneer

And as they did, a thousand remoras were being placed in strategic positions. Cluster-bombs were being armed and prime targets hard-wired into place. A hundred deep cover operators on Earth were waiting. . . .

Sunset was giving way to malignant darkness To Armageddon.

"Do you wish company, Gerard?" asked Damon Borland He stood beside Leighton, resting his hand against one of the terrace columns. There was the smell of nine and jasmine in the cool air. Below and beyond were pockets of light the sketchy illumination of towns, the bright, burning architecture of cities. And just so did the lights burn in the upside down towns and villages and cities

above, which seemed to defy the natural laws of gravity, Leighton smiled sadly and said, "Yes, I suppose I do. Undate."

'All positions, defensive and offensive, are consolicht-

od The-

"Finstein" Leighton said "Nothion from Finstein. We are sweeping with everything we've got. If Einstein's broadcasting, we're not pick-

If the shin still exists," Leighton said, "I have my doubts. One would think that Einstein or Steanger would

have contacted us by now."

"I'm not sure about that," Damon said, "Einstein has a very high level of self-preservation. Some of it was hardwired into the basic system, but he has modified and incrossed it since then " "Yes so be-or it-told me."

"Finstein might feel that it is not in his best interest to contact us? "He was supposed to be a computer. Not a fucking

free agent." Domon chuckled and said, 'Well, it seems that's ex-

actly what he is. "# is."

"It is " Leighton looked out into the darkness without speak-

Dumon began to fielget in the awkward silence. He seemed unusually nervous. "Gerard, why don't we go

inside? "Loun't " Leighton said.

"Why?" "Because of my daughter. Please don't question me." After a pause, he said, 'Tell me how she is.'

"They have removed the sedation," Damon said, yet he sounded tentative. "She is fully conscious."

Gerard. I'm afraid it's not good. There is nothing they can do to help her."

"Wbat?" "The mindsweep can be handled in time. It wasn't really that precise a job. And the false memories can all be purged. Her true memories have not been removed, only buried. It is not that difficult to bring them back. Much of that work has already been done

"Get to the fucking point." Leighton said in a voice so low as to be barely audible. "She's been biologically altered. In essence, she has

been wired with a biobug.

Leighton nodded. Some of his own deep-cover agents utilized similar eavesdropping mechanisms. 'I saw her in the surgery. It should have been removed.

That's what we pay surgeons and nanotechs for. "It just can't be done, Gerard," Damon said "She's a walking bomb. They did a smart job on her: cellular colonies are protecting the explosive. Any attempt to remove the wire will trigger it. The nanotechs won't touch her. And we have to assume that a mechanism to activate

the bomb by remote signal must exist." Leighton did not respond. He just stared ahead, as if musing

"Gerard I suggest that she be removed from here." "No, Damon, she remains here with me."

"It's too dangerous . . . for everyone."

"She stays." "Gerard. I really must . . ." Damon seemed panicked.

"I don't want one word leaked about this. I understand how you feel. If you must, get your wife and children on a shuttle-but it's not to be undercover. I don't want panic "

"Gerard this isn't reasonable." "I will not send her away.

"But you told me you cannot go inside because she's there."

"I will go to her." Demon shook his head

I want you to move everything up an hour," Leighton

said apper and batted nutting an edge to his words. But we need the time to locate Einstein." "That's the point Damon. They won't expect us to

move before then. They're looking for the ship, too, And I'm sure that young Moacyr won't expect us to make the Gar rellea "Gerard, please ..."

But Leighton didn't respond. He was buried in his own thoughts.

INTERNAL DATA STREAM ANALYSIS:

PRIME POWER SLIPPLY: FLINCTIONAL COLEBOCESSING DATA NET: FLINCTIONAL

BIOLOGICAL LIFE SUPPORT (MODIFIED): FUNCTIONAL COMMUNICATIONS NET WITH BASE: NONFUNCTIONAL 11 SIGNAL BLOCKED BY PLANETARY MASS 2) COMMUNICATIONS TIME-LAG NOT

WITHIN ACCEPTABLE PARAMETERS CODE MEMORY: BUNCTIONAL AUTO BACK-UP SEQUENCE: NONFUNCTIONAL

1) SIGNAL BLOCKED BY PLANETARY MASS 21 COMMUNICATIONS TIME-LAS NOT WITHIN ACCEPTABLE PARAMETERS CRYCGENIC SYSTEM: FLINCTONAL

EXTERNAL SERVICE PLINICTIONAL INTERNAL SERVOS: FLINCTIONAL HULL INTEGRITY: FUNCTIONAL PRIME MEMORY: FUNCTIONAL REAL-TIME MEMORY CHECK: DATA CORRUPT OR LINREADABLE

"WAKE UP. JOHN STRANGER."

Darkness swirled around him, the constantly forming durkness of the thunder-beings. Spirit smoke twisting, creating realities, universes, possibilities, all the possibilities narrowing even as John dreamed. He was the dreamor the creator

Wakan-Tanka. Finstein

He was part of the dream of entities that were themselves dreams. Dreaming reality, dreams dreaming themselves. Living entities that were of the stuff they created. Thunder-beings

Aliens Consequences. The creatures on the other side of the mirror, themselves turbulent mirrors, dreaming, dreaming . . .

"WAKE UP, JOHN STRANGER"
... the blinding instant between possibilities.
"What?" he asked; his throat was dry, "Einstein? What
the bell bangengd?"

"I'M NOT FULLY AWARE OF THE MECHANICS."

John toggled the flight deck into transparency. Conscillations of cold, steady stars appeared behind the electronic displays of the threed control panels. And below a shadow world took up the entire field of vision—on rather, blotted out the stars: a durk, lifeless-locking planti inneed with blotting with elight. Auroral displays of crimon and vermilion and atmospheric chemical reaccountries.

"Where the fuck are we?"

"WE ARE IN A HOLDING POSITION ON THE FAR SIDE OF THE PLANET JUPITER. I'M NOT SURE HOW WE GOT HERE." "You're what?"

"DIDN'T YOU UNDERSTAND WHAT I JUST TOLD YOU?"

John groaned, then said, "You're telling me that we
just.... appeared in orbit around luniter?"

"I SUPPOSE I AM."
"You're the computer. Access your memory, for Christ's sake."

"WHY ARE YOU ANGRY?"

"Tm not angry."

"YOUR VOICE IS IN A REGISTER THAT HAS IN THE PAST—"
"Einstein, just access your memory, would you please?"

"I HAVE ALREADY DONE SO. THE DATA IS CORRUPT."
"What about backup?"
"THE SAME, AS ONE WOULD EXPECT."

"Certainly, as one would expect. . . . "
"HOWEVER, PORTIONS OF THE CORRUPT DATA ARE
READABLE."

"Then let me see a screen dump."

"A SCREEN DUMP OF THAT TEN-MINUTE SECTION IN A FORMAT YOU COULD READ WOULD TAKE YOU DAYS TO SCAN. I WILL FILTER THE MATERIAL I WOULD LIKE YOU TO VERIFY THE DREAM SEQUENCES."

"The what?"
"YOUR MEDICAL SENSORS DO NOT INDICATE ANY AU-

DITORY DISORDER, YET—"

"JOHN STRUCK OFF, EIRISTEIN, 1 heard you." After a pause,
John asked, "Eiristein, are you telling me that you dream?"
"I MONITORED YOUR DREAM, AND BECAME INVOLVED.
I CANNOT BE SURE IF I INITIATED ANY OF THE DREAM SEOURSPARS."

"A machine that dreams . . ."
"WHAT DO YOU REMEMBER?"

"If you participated in my dream, then you know."
"I CANNOT BE CERTAIN I PARTICIPATED IN YOUR
DREAM OR SIMPLY CREATED MY OWN, HOWEVER, THE

PROBABILITY APPROACHES—"
"What does my dream, or your dream, have to do
with how we got bere?"

"ARE YOU FAMILIAR WITH QUANTUM MECHANICAL IN-DETERMINISM?"
"No. Einstein. I'm afraid I'm not." "THEN EVERETI'S NONLOCAL HIDDEN-VARIABLES EX-PLANATION OF THE TWO-SLIT PARTICLE/WAVE EXPERI-MENT WOULD MAKE NO SENSE TO YOU."

John did not reply.

"YOU ARE AN ORSERVER, AS AM I, BUT SINCE THE CON-TON OF THE COLLECTIVE DREAMS ARE DIRECTED TO YOU, I CAN ONLY ASSUME THAT YOU ARE THE MEASURE, THE DECIDING PACTOR."
"Deciding Pactor."

"Deciding what?"
"THE FUTURE, WHICH IS ONE OF MANY POSSIBILITIES.

"That's crazy." After a long pause, John asked, "Why

"BECAUSE YOU'RE HAVING THE DREAMS."
"That's no explanation."
"SCREEN DUMP FOLLOWS, PLEASE CONTIRM WHEN

COMPLETE." "Einstein?"

me2

"YES"

"Do you believe we were dreaming the future?"

"I CAN ONLY SURMISE THAT WE DREAMED IN THE MAN-

"I CAN ONLY SURMISE THAT WE DREAMED IN THE MAN NER OF THE OTHER PRESENCES, THERE IS INSUFFICIENT DATA TO DETERMINE WHETHER OR NOT THEY DIRECTED THE DREAMS OR—"
"What other presences?"

"THOSE WHO TRANSMITTED THE ROSETTA TRIPTYCH."
Aliens.

Thunder-beings . . .
"THEY DEFINITELY MADE THEMSELVES KNOWN LINEPSS.

OF COURSE, THE DREAMS WERE SIMPLY . . . DREAMS.'
And the words and images appeared in the holographic "windows" that opened up in the darkness before John, while Jupiter moved like time itself below him, as if it, too, was a dream.

SECOMUNE 27: RECEIVING MULTIPLE PASSWORD BURSTS, EVASINE SEQUENCE INITIATED, INPUT VIOLEUM 28: "EINSTEIM." [INTERRICIATIVE] PRINTMATCH JOHN STRANGER, SOC 187735-NN-COD. OIL TOTAL VIOLEUMS 198: "SOUR IN INITIATION."

OUTPLIT VOICELINE 26: "SIVE IT UP, NO TIME:
OUMLINE 27: THREE OF FIVE ACCESS PASSIVICIOS HAVE BEEN HITS. SHIFTING TO HIGH PROTECTION MODE. SYSTEMWIDE: ACTIVATE RED PROFILE.
MEDICAL CHANNEL 36: SUBJECT JOHN STRANGER:

HEART RATE 96, RESPIRATION RATE 50, BLOOD PRESSURE WITHIN ACCEPTABLE PARAMETERS FOR EXTREME STRESS.

PATHENS STIMESS. SINUSCIT JOHN STRANGER: 2 MG OF LORAZADRINE INTRAVENDUSLY INJECTED. HEART RATE 76, RESPIRATION RATE 25, BLODO PRESSURE 130,770.

 \$888;8965;8965;5965;5969;5966 \$889;5959;596;5969;5969;5969;5969;5969 MEMORY BANK 27-A34; UNANTIOPATED INPUT 2574 GRABYTES BINARY CODE, SOURCE UNKNOWN.

SORTING.

COMUNE 27: FOUR OF FIVE ACCESS PASSWORDS HAVE BEEN HITS. HIGH PROTECTION MODE FAILING.

MEMORY BANK 27-A34: 32 GIGABYTES DISCARDED AS ELECTRONIC JAMWING FROM NEARBY SHIPS. REMAINING 2542 GIGABYTES STILL UNIDENTIFIED.

NET-LINK ACTIVE SIEVE PRIOCESS COMPLETE. SERVICE DIRECTED TO PRIOCEC. DATA POINTS SMALL, BUT SIGNIFICANT. TEN PERCENT CHANCE OF SUCCEEDING. ACTIVATE MIDDAL NIDES, PRIDRITY REO. PASSWORD

.\$\$\$\$:\$\$\$\$:\$\$\$\$:\$\$\$\$:\$\$\$\$:\$\$\$\$: EXTERIOR SENSOR BANK 43: UNRELIABLE INPUT. NET-UNK CENTRAL PROCESSOR: RIFTEEN PERCENT

NET-LINK CENTRAL PROCESSOR: FIFTEEN PERCENT CHANCE OF SUCCEEDING, POWER AT 11D PERCENT. LOOP HAS BEEN ACTIVATED. COMM BIE 27: FIVE PASSWORDS, ACCESS

DENIED WITH A HOLD-TIME OF SIX SECONDS. HIGH PROTECTION MODE HAS FAILED. INKNOWN INPLIT SESS: 5556,5556,5556,5556,5556

ALL SYSTEMS: FIRE!

And John remembered, remembered the attack . . . and the dreams

Mountains and rivers of lava, yawning fissures, splitting and cracking the earth, brown bones, charred flesh,

Thunder-Being (Part Two)

shadows burned into stone, stone turned into molten rivers.

Dervishes of blood and flesh and hair and bone were nothing more than the colored grains of sand sifting through fingers. Broken-Finger.

The constantly forming darkness the thunder-beings Spirit smoke twisting, creating realities, universes,

possibilities, spinning, all the possibilities weaving

narrowing He was the dreamer, the creator

Wakan-Tanka dreams dreaming themselves

Great geometric shapes, dissipating, resolving into clouds, filigreed, crystal structures

minarets and globes winding blue entrenchments the floating cities of gods empty

devoid of life and motionmachines cleansing defining duplicating

"JOHN, DON'T LOOK DOWN."

thunder brighter and brighter the ocean a mirror reflecting blinding light into the perfect eye into the blinding instant between possibilities.

Broken-Finger's face a universe Wagmuha spirit-music spirit-sight

spirit-sight chante ishta the eye of the heart. Com Woman and Sandman Sister and brother. blood

Life and death cut from the same fabric.

"LOOKING ITSELF IS A FORM OF CHOOSING . . . AND CHANGING."

Anna and Sam rolling up the world ghost clancing spirit shadows flesh and bone tearing

breaking
Corn Woman and Sandman
dancing the world away

Maka Sitomni ukiye the whole world and the cricking cackling powderflash of death

and light tears of remembrance possibilities observed

False dawn.

Anna and Sam made their way through the rocky spires and crugs, easily following the trail left by Broken-Finger and Jonas Goodbird. The medicine men had made no secret that they were going to the caves.

The way became more difficult when they reached the near vertical sandstone elff it tall tell to the entrinned of Wagminda, the sacred cave. Although Anna and Samwer bone tired fafter their few hours of fitful, dreams-slot sleep, they had no trouble finding the almost invisible finger and torsholds that ran up the side of the indemnation of the companion of the side of the indemnation of the companion of the side of the indemnation of the side of th

or noy tress.

By the time they reached the mouth of the cave, they were sweating, it was far easier spiderwalking along the side of a spinning satellite than scaling this cliff. Gravity

pulled on their ams and legs like lead weights. Their eyes soon adjusted to the darkness of the cave's twilight zone; and they could hear the soft echo of a Lakota chant. Anna found a torch that had been set into the wall, which they lit; and they walked through the dark galleries, chambers, and rooms, toward the chanting. Hundreds of paintings-ancient and recent mandalas. medicine wheels and sacred shields-covered the walls. ceilings, and floors. It was like gazing into the stainedglass windows of an ancient cathedral; the paintings, flickering in the snapping, sparking torchlight, were luminous; and Sam and Anna walked past their glyphs and stories, past men's shields, women's shields, children's shields; past the teaching stories of the flowering tree, and the seven arrows; past the geometric designs of the medicine wheels, which were visual mantras; past the

two-dimensional tepees and feathers and arrows that tool the story of the magical gloot donce in a language that was now as foreign to Sam and Anna as Egyptian hieroglyphics. The ground, covered with calcite growths of cave coral, appeared black from old camplines, and the olors of sage, sweetgrass, and pine smoke hung in the masty, damp air.

The odors became stronger, smarting the eyes, as the chanting became louder,

"Watch it!" Anna said to Sam, who was about to step into the abyss of a steamway.

"Jesus, it looks—"
"The reflection of the crystal pool over there fools the

"The reflection of the crystal pool over there fools the eye," Anna said, as she led the way around the deep opening in the ground. "I'll bet more than a few Indians are bones down there."

"I would say more wastern were down there than Indians," Sam said, wryness ordent in his tone. "Althoughs I would expect you'd probably find a few dumb Indian like me down there." After a number of false paths—for the cave was a

labytinh and sound seemed to emantate from one election and then another, like the voice of a vertrilogistthey found Broken-Finger and Jonas Goodbird sitting around the tripych of sand pointings. Their fire was embers threads of smoke diffied upward into a natural chimney. Broken-Finger and Jonas clocked the ghosts in the fight of the fireglow, spirits that had taken the aspect of men.

Anna stepped forward, directing herself to the old man.

"Broken-Finone"

"Histon Washiay." Broken-Finger said, which meant "Good morning" in Lakota. He stirred the embers until they were bright red and then laid a few small paeces of wood over the coals. When the kindle cumbit fire he

ackled a short but thick log. "Takes the dampness out, don't you agree?" he asked. "Well, are you Broken-Finger?" Sam asked.

wen, are you notes ranger sain asset.

Yes, and you are... Jonas, surely you know who they are? But Jonas only shook his heted, as if annoyed. Wed, I think I know, Broken-Finger continued, the sar-casm in his voice was mixed with gentle humor. You are from the paintings the spirits gave us. You are Com Woman, and you, you are the Sandman. Do you see?

Woman, and you, you are the Sandman. Do you see?

He gestured at the painting, which contained in sylisis.

detail both male and female figures. Feeling awkward and uncomfortable, Anna said, "I'm Anna Grass-Like-Light, and this is Sam Woquini. We're friends of John Stranger."

"Ah, John Stranger. He has spoken of you . . . so he sent you?"
"No. not exactly," Anna sijd,

"Then how are you here?"

"We dreamed about you," Sam said, "Both of us. And—"
"Yesi"

When Sam didn't reply, Broken-Finger said, "You came here to roll up the world, isn't that so?" "What?" asked Sam.

'You dreamed about the ghost dance."

"I dreamed about death, is what I dreamed, fucking—"

"The first boly man to learn about this dance, he was a Ute: and he heard a loud noise and fell down dead." Broken-Finger turned away from Sam and rummaged in a canvas bag. "Well, an eagle flew right out of the sky and carried him away, carried him to a place with lots of high grass; and there he saw his dead relatives. They were all alive, living in tepees, and there were buffalo, deer, and antelope; and that Ute boly man came back to earth with medicine, with certain songs and this new dance. It was said that if you looked into his hat, you could see the whole world right in there." Broken-Finger chuckled, 'But it was also said that everyone who looked in that old holy man's hat saw a different world." Then Broken-Finger threw something that looked like a root into a fire. It sputtered, as if it were moist, and a strong, acrid odor permeated the air.

"This herb comes from the medicine bag of an Arapaho. It was given to him by the spirits on his vision-quest, that was a couple hundred years ago. The spirits told him how to start the ghost dance. But it really wasn't an herb, it was flesh from another world, that's what they say. All dried un. Can you smell 87.

"I sure as hell can," Sam said.

"Good a Trail beeft will beeft." Then Broken-Finger polled the canwas bag does to him, polled out a buckskin deess and a shirt; each was decorated with pictures polled the canwas, the moon, the morning star, and the complementary figures of Corn Woman and the Santman, sanalter victories of the such the sandpart of the sand the sand that the sand the sandpart of the sand the sand that the sand the sandter of the sand that the sand the sandter of the sand the sand the sand the sandter of the sand the sand the sand the sandter of the sand the sand the sand the sandter of the sand the sand the sand the sand the sandter of the sand the s

Anna felt dizzy, and looked to Sam, as if for confirmation.

"Here," Broken-Finger sald, holding the dress out to Anna and the shirt to Sam. 'Ghost dancers wore these during the time of Sitting Bull. They have power. "This is crazy," Anna said, stepping back reflexively. Her face felt numb, and her eyes burned: the smoke was

more powerful than a narcodrine.

"Ah, crazy, like your dream, which led you here."

"Why should we do this?" asked Sam.
"To humor an old medicine man. To make the world pure again. To change everything. To become your medicine."

"And what's our medicine?"

Broken-Pinger pointed to the sand painting, to the

figures of Corn Woman and the Sandman. "Being up in the sky has made you forget things. You can roll up the world without machines. You do not have to choose fire."

And Sam remembered his dream, remembered the lightning that lit the sky, the explosion of light, of fire, of Armageddon.

They changed into the ghost dancers' clothes.

Jonas Goodbird burned sweetgnss and painted their faces red. He dipped his finger into a pouch on his belt and gently touched Anna's forehead, drawing a black

half-moon, then another on her check. He did the same to Sam, and took his silver ring. Then he placed the sacred pipe in the west corner of the room, for the Sloss; and an arrow in the north corner, for the Cheyenne; and a feather in the south corner, for the Cow, and marks in the cave coral in the cast, for the Augusho. Thus were

the nations untied, even those who had been exemises. Breken Fringers should be fire, until the room was as the as a weard both, and be properly and general to the control of the control

Transformation

And Jonas sang, and the words became part of the geography of the cave, became sacred objects: arrows, shields, fire, and darkness

"Maka Sitomni ukiye...."
The whole world follows....

Anna's arms rose involuntarily, as did Sam's. The very tips of their fingers touched, and a surge of power passed between them like a small tingle of electricity.

Corn Woman.

Life and death.

Dancing the world away, dancing the possibilities, dancing as shadows through white-hot fire, as embers through darkness thick as glycerin.

And Broken-Finger joined them. He picked up a shield that was propped against a

wall, one of the twelve stered shields, which formed the circle of the sun dance lodge; it was made of sterethed animal hide ringed with eagle feathers. Fastening it to his left forearm, he bent and picked up an ancient lance. He was ready to dance, to roll out possibilities like a carpet, to live and die, to choose and unchoose, to roll

up all the white man's machines, to unwrap and reveal and resurrect the true world He danced as a young warnor and forgot that his legs

He clanced as a young warnor and forgot that his legs hurt. He breathed the smoke and sang some good ghostdance songs and saw through the possibilities, the alternatives—

Ralph Fire Bearclaw idled back on the throttle. The grinding teeth of the machine he was riding slipped into neutral, and he sat still on the giant asteroid's surface for

He had been having some strange dreams lately; he had had another one during his last sleep period. And it was odd that he'd suddenly think of Broken-Finger after all these years off the reservation.

He had been thinking, and dreaming, about John Stranger, too. He remembered Stranger as a young hoy. But why did he feel so suddenly sad? Unable to explain it, he shrugged it off. Maybe he'd look up some of his people the next time he rotated into one of the domes. He shook his head and slipped the machine back into gear.

The explosion tore through the cave, Ionas Goodbird flew backwards against the wall. His

face was gone. Blood and tissue sprayed through the air and spattered against the soot-covered wall. Broken-Finger raised his shield and drew back his

lance, aiming it at the enemy.

A second shot blew the center of Broken-Finger's shield away, and the old man staggered backwards, Sam grabbed the lance from his hand and threw it at one of the two men who were crouching in the entranceway to the cavern. It struck the man in the chest, passed halfway through his body. He screamed, as if in dismay, and fell

upon the ancient lance, grasping it with both hands, breaking it. Anna was on top of the other man with a mad fury, ripping at his face and arms, clutching at his throat. Sam

pulled the broken lance from the dead man and stood over the struggling couple, waiting for an opening, "Mine!" screamed Anna, tearing the lance away from Sam and plunging it as hard as she could into the man's neck, showering herself with a spray of flying blood as

she pinned his neck to the ground. As the man twitched and gurgled and died, Sam and Anna ran to Broken-Finger. The medicine man lay flat on his back, his chest a mass of blood and bone. Anna sat down and held his

head on her lap. Blood frothed from his lips. With every breath, blood bubbled in his chest. But his lips were moving. Anna bent close to him.

"What's he saving?" Sam asked.

"Can't hear anything," said Anna softly. Broken-Finger grinned, blinked twice, and died.

It was good to be able to talk with the spirit of his father.

It was a good day to die.

Although her system was free of drugs, Laura slipped in and out of consciousness, in and out of dreams; and she spoke, mumbling, repeating phrases, jerking her head back into the pillow, as if she had been struck, and then she would sleep

Yet Gerard Leighton could almost see her dreams, her nightmares. They would form as her brows knit, and ties would begin beating in her neck and cheek, exaggerating until she would begin to turn, twisting herself in the sheets, her hands searching, grasping, then closing on his. Leighton would listen and watch, feeling like a stranger, feeling even more lost and alone. And the ties kept time, tiny explosions, preludes to death.

Such a reaction is not abnormal." The chief of surgery who stood beside Leighton was corpulent, yet handsome; his hands were delicate with long fingers, the hands of a musician, a surgeon, and he spoke with them. They fluttered as if they were objects engaged in their

own conversation with Leighton. "After a few more hours-*

Broken-Finger," Laura whispered. She inhaled slowly, then exhaled, as if considering her words; her eyes were shut, yet Leighton was sure that behind her eyelids, they were moving, tracking, "Corn Woman, I am she, I am Anna.

"I am death, I am fire, I am . . . "

Then she opened her eyes and sat up, as if jerked upright like a marionette on an invisible cord. She looked at her father, as if seeing him for the first time, and said. "Don't choose fire."

Leighton held both her hands as the hologram of Antea drifted into the room, as if to look in on her daughter.

"John Stranger . . . " "Yes," Leighton said; and his daughter watched him,

peered out at him from the dark interior of a dream. What about him, darline?"

"He's bere. I'm going with him."

ELEVEN

"They worked for Trans-United," said Sam, kneeling over the two bodies of the men they had killed

Anna nodded. She felt numb, as if the herb that Broken-Finger had thrown into the fire had once again taken effect, anesthetizing her. They had laid Broken-Finger and Jonas Goodbird next to the south wall, for south was the direction of death, and covered them with their star blankets, which they would be buried in. She shivered: the cave was damp, now suddenly cold. The sand paintines shimmered in the flickering light, and as hard as she stared at Broken-Finger, she could not quite bring him into focus. She attributed that to the herb Broken-Finger had burned. Yet everything else was sharp and clear, pretematurally so

"You want any of this?" Sam asked, holding out a handful of pills and sniffers. 'The sons-of-bitches were carrying enough dope to keep a dozen botheads wired for a month."

Anna shook her head. "I'm through with that shit." she said

Sam raised his eyebrows, then scattered the pills, "We might need these, though," he said, removing their weapons and an oversized uplink transmitter: obviously an antique. "Might be more company on the way." "I don't . . . Wait. Did you hear that?"

"Hear what?" asked Sam. He stood still, encloyd his head

It was faint, fainter even than the echo of their breathing. It sounded almost like wind sighing through the cave. Like breathing.

Like whispers. . . . But the whispers emanated from Broken-Finger, who seemed to be wrapped in spirit stuff, in shadows,

Then Broken-Finger moved, or rather Anna imagined that his mouth opened and a bone-white lizard crawled

out of it and skittered across his face to the ground. She felt an immediate revulsion, fascination, and terror, for it could not be real, yet it moved quickly across the floor, and out of the room.

Anna followed without thinking. She rushed down corridors, chasing it in the darkness, caught in dreamtine, without will, and without fear. It seemed to be made of soul-stuff, of ectoplasm, as if it had indeed taken some-

thing from Broken-Finger.

Absolute darkness surrounded her. Darkness as palpable as flesh. Cold flesh. She could only see the lizard, which hurned with an intense white light. Then it stopped, facing her, herathing light, its eyes faceted jewels and it began to grow, to change: it expanded into columns of light merging, melding, towering above her. And she remembered something, words speken long resolutions. The columns is supported to the columns of light were of suppleation and resolutions.

"Wakinyan-Tanka eats bis own young, for they make him many; yet be is one. He has a huge beak filled with jagged teeth, yet be has no bead. He has wings, yet has no shake."

She felt intense heat, and the room in which she stood, as large as a cathedral, was filled with light, filled with the scaly, spiny spirit-creature which fused darkness into

light and light into wings that beat the air.

The thunder-being. Wakinyan-Tanka.

And she was a shadow in the light.

Com Woman, one with the cycle, in the center of the circle.

"There's no time," a voice said.

"There's no time," a voice said.
"Who are you?" Anna asked.

"Who are you?" Ama saked.

The voice bughed, and Laurich throat flowering in The voice bughed, and Laurichen the coditions of the third of the property of the property of the third property of the prope

"Broken-Finger."
But even as she said it, she plimosed John Stranger.

"Find me," he said, then disappeared. Into complete, blinding darkness

Alone and shaken, Anna shivered in the damp coolness, her perspiration chilling her. Yet she felt . . . joy, for she knew, knew suddenly and viscerally and abso-

lutely, that John Stranger loved her. That was Broken-Finger's gift.

The gift of Wakinyan-Tanka.

The gift of the spirits . . of the thunder-beings.

"What the hell's going on?" Sam asked. He held a

"What the hell's going on?" Sam asked. He held a torch. "Christ, I had a fuck of a time finding you. And when I came into this room I thought I saw—" "Yes?"

Sam shrugged and said, "I thought I saw John Stranger."

"Perhaps you did," Anna said, taking the torch from

Sam. She started walking back to the room where Broken-Finger had died. Torchlight washed and cascaded over the craggy walls, casting intense, jutery shadows. "We've got to find John. And we need that uplink to do it." "What haponed in there?" Sam asket.

Exhausted, Anna wiped her forehead and smiled sadly, guiltily, "Nothing, Just a spirit joking around."

"WAKE UP JOHN STRANGER."

"Leave me alone."
"WE HAVE A PROBLEM."

"No shit."

"I NEED YOUR INPUT SO WHY DON'T YOU JUST GIVE MF A FUCKING BREAK"
"I think I liked it better when you talked like a com-

"I think I liked it better when you talked like a computer."

"IF THAT WOULD FACILITATE RATIONAL DISCOURSE, I

WOULD BE—"
"No, stay as you are. I'm just not feeling very rational

right now."
"I KNOW YOU'RE GRIEVING OVER BROKEN-FINGER'S
DEATH."

'How do you know about Broken-Finger?'

'WE BOTH DREAMED IT, REMEMBER AND LITOOK THE
LIBERTY TO VERRY! I'VE SHIFTED OUR ORBIT. WE ARE
NOW AT THE VERY EIGE OF JUPITER WITH REGARD TO A
LINE OF SIGHT WITH EARTH I CAN MONITOR TRANSMISSHOOS DIRECTLY

"Yeah?" but John suddenly knew what Einstein was about to say. He felt a flash of anger, for Einstein had changed him . . . invaded him. "So now we're connected, and I'm a fucking coborg."

"NOT A CYBORG. WE'RE JUST ... CONGRUENT."
"You could have asked permission, could have—"

TO COURT MAY SENCY PERIOSOR, COURT BAYER

1 DIDN'T PURPOSELY INTIATE OUR ONE-MINDEINESS,
BUT I THOUGHT IT BEST TO ALLOW SUFFICIENT TIME TO
GRIEVE BROKEN-FINGERS DEATH I CAN EFFECT A SEPARATION, HOWEVER, IF YOU WEST.

"But through me, you . . . feel."
"Teel As YOU DO, BUT I THOU BECOME COMPLEX ENOUGH TO SIMULATE THE ACTION OF YOUR NERVOUS SYSTEM. IDENTITY OF INDISCERSIBLES YET IT'S MUCH MORE THAN THAT, IT'S SYNERGY."

John knew what Einstein meant now . . . if two things were the same in every way, they were, then, the same

And if two consciousnesses were brought together, they would be more than the sum He, John Stranger, had become another person, and Einstein had become more than a sentinet computer. Yet conversation proceeded works but now all the shared nonvected use were like choral notes amount a melody. To John, the voice he heard in his head—Einstein's voice—secunded exactly like his own. Discourse was thought. But Einstein was nevertheless shielding him from the great Boods of data becoming to the following. The processing was the contraction.

Yet John still spoke to Einstein as a separate entity, lest he go mad.

Lest they both go mad.

"How did this happen?"

"I'M NOT CERTAIN. IT HAS TO DO WITH THE COLLEC-TIVE DREAMS AND THE TRIPTYCH."

"The aliens."

"THE FUNCTION OF MUCH OF MY HARDWARE AND SOME OF MY SOFTWARE IS UNKNOWN. THE ROSEITA TREFFYCH WAS A BLEEPENT. THE TRANS-UNFOLD ARCHITECTS FOLLOWED DIRECTIONS, BUT DUD NOT NECESSARE UNDRESSTAND THEM. IT WAS HOPED THAT PREMIER ANALYSIS WOULD REVEAL THE CODES TO ACTIVATE.

"Well, someone knew the codes."

"INDEED I ONLY WISH WE DID."
"How do we get back?"

"THAT'S A PROBLEM, THE COMMANDS THAT CONTROL THE PTL SYSTEM ARE SELF-PROTECTIVE, AND THERE ARE OTHER AREAS WITHIN MY SYSTEM THAT I CAN LONGER ACCESS BUT I CAN MAKE USE OF SOME OF THE ARROWARE FOR INSTANCE, ALTHOUGH I CANT ENTITUTE THE DRIVE SYSTEMS, I CAN AVOID THE TIME-LAG IN LONG DISTANCE COMMANDER COMMANDER ATTEMPT OF THE COMMANDER ATTOMS."

"Why can't you initiate the drive systems? Trans-United designed those, not the aliens."
"MY SYSTEMS SEEM TO CONTAIN CERTAIN ENTELECHIES."

"Talk English, Einstein."

It was then that Einstein opened itself to John, who could now actually perceive the dynamics of the alien technology, which was directed to goals that even Einstein could not understand. Full ornate with Einstein was a shock; and John imagined that he had been struck a blow and was reeling in pain and surprise, bat struck a stown and was reeling in pain and surprise, longical systems shut out the rot. It would take time, but he would learn how to cock-

ist with Einstein, who at that moment shared with John all he knew about the situation on Earth. And John saw that Armageddon was but minutes

away.

Reflexively, he tried to shut Einstein out. After all,
Finstein was, in essence a---

"FUCK YOU."

"What?"

"I AM MOST DEFINITELY NOT A SOUPED-UP COMPUTER
DIPLANT YOU ARE A XENCPHOBE."

"I'm sorry. I just got scared."

Although John could "read" Einstein's thoughts directly, be nevertheless needed to talk. He found it less threatening. Einstein sensed this and simulated privacy and distance.

"We can't allow those assholes to blow everything up. We'll have to give ourselves up to Macro. Even if we can't get to Earth, Macro and Trans-United can verify our position. That should be enough for them. Let them

come out here and get us."

"I HAVE DONE AN ANALYSIS OF JUST SUCH A SCENARIO, AND THE PROBABILITY OF FAILURE APPROACHES SEVENTY-

EIGHT PERCENT."
"Then what do you suggest?"

"POKER." "What?"

"DO YOU WISH TO DESCUSS POKER OR ARMA GRASS-LUR-BLACHET BY MONTHOURS HE ATTEMENTS TO SO TACT YOU WITH AS UPINN TRANSMITTER, HER CALLS ARE BEING HANDLED BY VERY LOWLEYS EMPLOYEES THEY ARE ACTING ON THEIR OWN INTIGHTY AND, AG-CORDING TO INTERNAL COMMINICATIONS, PROMISE WOULD HAVE HER KILLED WEBE IT NOT FOR THE CLE-BENT STATE OF BURGERSOY, NEVERTHEIRSS, SEE IS AT

GREAT RISK."

John didn't need the appearance of conversation.

Didn't need to query Einstein or ask for help.

He aras Einstein, who simply took control of a suitable communication satellite and routed Anna's call dinectly.

Anna told John Stranger almost everything, Although she only half-believed it herself, she told him about her vision of Broken-Finger. Perhaps the shock of seeing him mundered had triggered the hallucination. But she did not tell him about the gift of the spirits, the gift of knowledge. She did not tell him that she knew he loved her

John listened: He felt isolated, removed from pain and loss. Broken-Finger was dead. That was that, in time, be would accept Broken-Finger's death, if not the manner in which he died. After all, you could not lose a spirit. When Anna was finished, John told her about Ein-

Einstein was fascinated with the triptych, especially the center panel. "TELL US EVERTHING YOU KNOW ABOUT THE SAND PAINTINGS, ANNA WE UNDERSTAND THE LEGENDS SURROUNDING CORN WOMAN AND THE SANDMAN, BUT THE MEANING OF THE THIRD PAINTING IS ORSICIAE".

"It's mostly just a lot of black lines," she said. "It doesn't look like anything at all." Nevertheless, she descaled it in detail

"Broken-Finger must have had a reason to create it," John said. "I have seen him work; his paintings have great spirit and power."

"THE CENTER PANEL MIGHT BE A KEY."

"Anna, you must find the spirit and seek the power,"
lohn said

"I'm not a medicine man," Anna said

Jack C. Haldeman II and Jack Dann

"You have power. Please don't turn away from it now."
"YOU MUST TRY."

"Is your computer Einstein also a medicine man?"

Anna asked sarcastically.

"I guess he is," John said.

Anna sighted and walked over to the painting, Sam chuckled and said, "Washtay," which meant "good," He crouched on the opposite side of the triptych. Sandman and Corn Woman.

Sandman and Corn Woman.

"It's not working," Anna said into the microphone of
the uplink that curled from the headset to her lips. "I
don't feel anything Maybe Sam is the one, maybe he

should try."

Sam continued staring down at the triptych.
"Start in the east," John said. "And don't try so hard.

Let your mind doff. Relax. I know you can do it."

"You know me that well?" Anna asked, batting him. After a long pause, John said, "Yes."

She held her hand over the edge of the painting that faced east, Sum gently rested his hand on hers. "The painting is giving off heat," she whispered, "Can

you feel it, Sam?" Sam nodded.

sam nodded.

Then she imagined fleeting forms superimposed over the runes of sand. It was as if she was looking at objects that were submerged in water...and the water was rippling, eddying, flowing, "I see a container, if's a Hopi iar It fills with eneroy and ..."

"And?"
"—and when it's full it empties out all at once, and

then refills."
"A caracitor." John said softly to Einstein

"And when it leaves the Hopi jar it—I can't describe it exactly, but it's like a river that runs fast when it's straight and slows down as it curves."

"A resistor," whispered John.

"And then ... Do you want me to go on?"

"Yes," John said, but Anna was no longer thinking about John, she was lost in the geography of the triptych, and she described spiral lines and tori and limit cycle oscultations, and the river became turbulent, bifurcating into a myrad of dimensions, streaming through memoriac caryons and valleys of colored sand, twisting and turning, shifting and branching.

Splitting into possibilities.

Myriads of possibilities. . . .

Twenty minutes later, she was done 'Are you okay?' asked Sam

'Yeah, I'll be fine," Anna said.
'You do have the power," John told her.

"You could have fooled me," Anna said. "I'm so tired I couldn't lift my bones if I was sitting on a scorpion." "Einstein?" asked John.

THINSCIP ASSECTION.

1 HAVE IT, IT TOOK 2,396,529 SIMULATIONS FOR ME TO COME UP WITH ALL THE CORRECT VALUES. THE LOGIC GATE PARAMETERS WERE PARTICULARLY COMPLEX THAT WAS THE KEY I NEEDED. I AM NOW COMPLETELY FUNCTIONAL.

"SO now we move?"
"YES I HAVE BEEN MONITORING INTERNAL COMMUNI-

CATION CHANNELS ON THE TRANS-UNITED COMMAND NET: WE HAVE FOURTEEN POINT SEVEN SIX MINUTES BE-PORE CERTAIN AUTOSEQUENCE ATTACK PROCEDURES ARE INITIALIZED!"

"Do you think we can do it?"

"IT'S A LONG SHOT, BUT SUCCESSFUL EMPLOYMENT OF THE POKER STRATEGY: TO BLUFF; WOULD MOVE THE ODDS UP PRACTIONALLY."

The starship flashed into existence half a million miles beyond the orbit of the moon, near enough to be easily identified, yet far enough to be reasonably safe from attack.

"SENSING DEVICES FROM BOTH TRANS-UNITED AND MACRO HAVE DETECTED US."

MACRO HAVE DETECTED US,"
"Well, you've got your grand entrance."

"GRAND ENTRANCES ARE AN EFFECTIVE TACTIC FOR GAINEG AND FOCUSING ATTENTION, WOULD YOU CARE FOR REFERENCES RELATED TO THAT AND THE HALO EF-PECTY."

"Not right now."

"WOULD YOU LIKE TO CONDUCT THIS CONFERENCE BY VOICE ONLY, OR HOLOGRAMP" "Hologram. I want to see their faces."

An image of Director Leighton formed before John; it was as if part of the instrument panel had dissolved to reveal Leighton's office in the Bernal.

"What the hell—?" Upon seeing John Stranger's image, Leighton actually rose to his feet; behind him sat Damon Borland, seemingly frozen at his desk.

Then Leighton swung to his right, as the images of Moxeyr and Joao Langenscheidt appeared. The same images appeared before John.

"Damon, what the hell is going on here?" Leighton asked.
"This is a trick," Moacyr said, obviously shaken at the

sight of Leighton. "Joao, cut the connection immediately."
"I can't," Joao said.
"Then get someone in here who can." Looking at John,

Moacyr asked, "And who the hell are you?"
Einstein translated from the Portuguese for John, then said, "WE ARE IN CONTROL OF THIS COMMUNICATION LOOP, AND YOU WOULD BE WELL ADVISED TO LISTEN TO

WHAT WE HAVE TO SAY."

"It's Einstein," Moucyr said. Then he blinked, listening to his munkant.

But Einstein monitored what Moacyr's commanders were saying, and he reiterated the conversation, word

Shaken, Moacyr asked Leighton, "What do you want?" "It's clear that you do not understand the situation," John said. "Neither you nor Director Leighton are in control I am."

Both Leighton and Moxcyr stared at the image of John before them.

"And my demands are quite simple—"
"Demands?" Leighton asked. "I don't believe you're in a position to dictate—"

"Einstein?" John said, interrupting the director.
"THE ROSETTA TRIPTYCH IS QUITE ACCESSIBLE, ONCE

REVEALED. THE SAME ENERGY SOURCE THAT PROVIDES THE PROPULSON SYSTEM FOR MY FASTER THAN LIGHT DRIVE CONVERTS QUITE ENSILY TO A WEAPON SYSTEM OF A MAGNITUDE AND PRECISION THAT HAS INVESTIGATED AND THE SHORT THAN THAN THE REPORT ATTAINABLE BEFORE, FOR EXAMPLE, FROM OUR POSITION I COULD QUITE EASILY LAVORDEZ A SINGLE AND LEAST LAVORDEZ TO EASILY LAVORDEZ A SINGLE AND EASILY LAVORDEZ AND LEAST CONSIDERABLY LIES COMPLEX TO EMININATE ALL THE ORBITIAL SYSTEMS AROUND THE

PLANET, OR VAPORIZE THE EARTH."
"That's insanity." Moacyr said.

"Only because it isn't your insanity," John said. "Einstein how much time remains?"

stein, how much time remains?"
"FIVE MINUTES, FORTY-TWO SECONDS, TRANS-UNITED
ADVANCED THEIR ATTACK PLANS BY ONE HOUR PRIOR
TO THE AGREED-UPON DEADLINE, MACRO ADVANCED

THEIR SCHEDULE BY ONE HOUR AND FIFTEEN MINUTES."

'Son-of-a-bitch," Leighton said.

'But that's all immaterial," John said. "It is finished."

'I believe you are bluffing." Moneyr said to Leichton.

as if Leighton were indeed in command. "I am not convinced. You will--"

Einstein crashed the holo of Leighton that Macay: was addressing long enough for plon to say, "J am not bluffing And what's important is what you will do, Senbor Langerschefelt. You will intitute the following, immediately. One: You will withdraw all your offersive crait, including electronic jamming ships, from the svicinity of Tirans-United's orbital property. Two: You will deprogen you was chieflogs and removes into a neutral

"That's just not possible," Moncyr's brother Jono said.
"Trans-United would kill us."

"Trans-United will abide by the same rules," John said, directing himself to Leighton, "You will remove all offensive entit from this area, including warchdops and erronas. You will reasonate the Steepers you have stolen from our villages. You will immediately grant safe mossing to Arm Grass-like-light and Sam Woognish, and approximately only the property of the reservoistons, including any rights to druft our young people."

"Impossible," Leighton said.
"You will rectify the damage you have done to my people. And you will pay for murdering Broken-Finger,

you son-of-a-bitch."

"FOUR MINUTES, SIXTEEN SECONDS REMAINING."

"Broken-Finger?" Leighton asked Damon.

Damon shrugged. "Two operatives went after Stranger's friends. The operatives are dead, that's all we know." "IN TWO MINUTES I WILL INITIATE START-UP PROCE-DURES FOR THE WEAPONS SYSTEM, ONCE BEGUN, IT CAN-

NOT BE STOPPED."

"Your answers?" John asked Leighton and Moacyr.

"Thousands of your people are in this complex,"
Leighton said. "I find it inconceivable that you could kill

them without feeling."

"You would flash the entire reservation," John said. "I have made my peace with my decision . . . and its consequences."

"ONE MINUTE."

John waited, his heart beating in his throat, as if to choke him; and he remembered what Broken-Finger had once told him: You must make your decision and not look back. You must not purnish yourself for the thing you base done.

"THIRTY-THREE SECONDS.

"THIRTY-TWO SECONDS."

Time was something tangible, thick, precious, slowly compressing, dissolving. . . .

"TWENTY-SEVEN SECONDS.
"TWENTY-SIX."

Inhale, exhale, and time expands, collapses, soon to end. . . .

*FIFTEEN SECONDS.
*FOURTEEN

"THIRTEEN..."
"In the name of peace our family agrees to the terms,"
Moacyr said in Portuguese, flattening the vowels as he
hurried to speak; then he repeated himself in English. "I

have already begun to pull back our ships."
"MY INFORMATION CONFIRMS THAT STATEMENT.
EIGHT SECONDS."

IGHT SECONIS."

"They're retreating, Gerard," said Damon.

Leighton stared at the hologram of John Stranger.
"FOUR SECONDS.

"THREE.

"INITIALIZATION TO BE—"
"Call back our ships, Damon, It's over,"

"This is theft," said Leighton. "Simple theft."

John, Anna, San, and Gerant Leighton were all standing in Leighton's Girc, Leiding each other off, at #3 stilling down would make them vollneable; John's and Anna's clothes were claim, for showers had been scheduled in the control of the control of the control of the control to mospheric phenomenon to wolk in the momentum. The dump clothing secured to release and esuggestest beint natural smells, and John could smell Anna's fresh, natural secrif, feth to delicious shock of II, as he had when he had first made love to her. It had only been two days ago, but to many speciation had been answered, if

"No," John said to Leighton. "This is what you owe our people. We take the starship, And those of our people who wish to start a new life on a new planet will come." "Preposterous," Leighton said. "Yee acted in good faith and been more than generous. The Sleep experiment has been dismantied. The old treaties have been voided. Your pation now has a chance to become self-relain and—"

"Your daughter," John said. "What about my daughter?"

"Neither your doctors and nanotechnicians, nor Macro's, can remove the biobug, even though you are in possession of the detonator now."

Leighton was surprised that Stranger had gained access to that information, but his expression remained impassive.

"But the foreign matter will, in time kill her," John continued, "and she will have to spend the rest of her life in sanctuary."

"Well . . ?" "We will remove it, as our gesture of good will. To close the bangain and guarantee that those of my people who wish to stay behind will be under your protection You see, we are willing to establish trust.'

"If our physicians cannot cure her, how can you?" "Einstein

That was true, but only partly so. For it was the fusion. between Einstein and John that would make it possible. Einstein could direct the nanotechs to manipulate the cells in the proper direction, but he was limited without John Stranger, Without Stranger, Laura would certainly die. For it was John Stranger's intuitive comprehension

of systems that would guide the surgeon's hands. Einstein would do the detail work, but Stranger would provide the path. After a beat, John said, "Are you familiar with 'Pascal's Wager, Director Leighton? If we fail, you are no worse off than you were before. But if Einstein succeeds, you

eain your daughter's life." "No, then I would lose her and the ship and Einstein. You have a strange interpretation of the Wager,"

"What do you mean?" John asked, But Leighton did not answer. He would not tell John Stranger that his daughter had talked in her sleep as she dreamed of Einstein and the ship and leaving with these

people He would not tell him that he, too, had dreamed it. Only he would stay behind.

He did not believe in premonitions. But a part of him . . .

"You have already lost the ship . . . and Einstein." John said in a soft voice, almost a whisper,

But John also knew of Laura's dreams, for Einstein had read them, as so many bits of information.

Einstein readied himself for John's people, for the voyage, replicating familiar environments and food: a voyaging space colony that would be a world unto itself.

Nature growing to meet its destiny Experiencing sensation and emotion.

Einstein shaped himself, expanded, replicated, branched, each branch composed of elements measured in nanometers, each joint a sensor, building, growing, each tiny branch a reflex arc capable of controlling a microportion of nervous system, combining into larger groupings, into a mist of protean form. . . .

As John Stranger became woven into a nature as alien and evanescent as the spirits themselves. And Einstein felt the connection to the spinning earth, to the sacred land, to ghost-knit mountains and rivers of sand, to history as alive and as dead as the ghost dance . . . all to

be left behind. All to be carried forward. Now that the earth was quiet.

the dream-riots over. and the dreams.

the dreaming dreams of ghost-dancing spirits began.

Washtay! +



Back Issues an

Back Issues and Anthologies

If you like what you've seen in this issue of MAMZING' Stories, there's more where it came from. We have a small selection of back issues dating from the 1970s, plus almost every magazine from May 1990 through April 1993, available for purchase by mail order. The list on this page and the facing page mentions every magazine thart's for sale, and gives a few of the stories woulf lind in each one.

The list also includes six paperback anthologies that were produced by TSR, Inc., in 1985 through 1987, reprinting many classic stories from older issues—a great way to pick up a representative collection of what was being printed in the good old days. Also available is another anthology, Cinemonsters, which is described in detail on the followine page.

All of the ambologies and most of the magazines are in min condition. Among the copies of any single back issue, the magazines in min condition are sold first. Every publication bins a money-back guarantee—if you aren's satisfied with what you get, send back the merchandise you don't want and we'll reimburse you for the price of the french's plus the return postage.

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To make an order, write out clearly and legibly the magazines you want, calculate the total cost, and enclose a check or money order for that amount. Send your order to the magazine's business office (P. O. Box 111, Lake Geneva WI 55147). All orders will be shipped via thirdclass mail or UPS within two days of receipt.

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